

Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- Preferred Alignment
- Segment G
- Segment I-2

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
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- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)

SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

**EXHIBIT: 4-4
Prime Farmland Soils Impacts**

Map Index

Source Data: HNTB, 2012; NRCS, 1976, 1996



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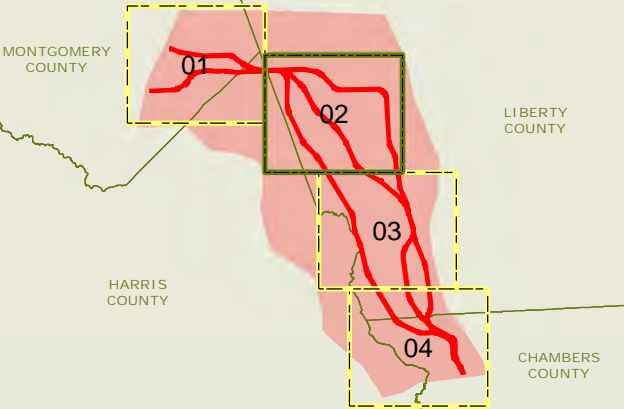
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 - Updates (Alt. 10R only)

Prime Farmland Soil Types

An	Kn	Sk
Ba	Kr	SrB
Bd	LaA	SwB
Be	LcA	VaA
Cd	Md	Vd
Fo	Mo	Wa
FrB	Oa	Wd
Fs	OyB	Wk
Ge	Sb	Wn
HoB	Sd	Wo

Alternative	Section	Area
1	No-Build	0
2	A-2, B-1, C-2	907
3	A-2, B-1, C-3	917
4	A-2, B-2, C-2	901
5	A-2, B-2, C-3	912
6	A-2, B-5, C-6	1071
7	A-4, B-1, C-2	941
8	A-4, B-1, C-3	952
9	A-4, B-2, C-2	936
10	A-4, B-2, C-3	947
10R	A-4, B-2, C-4	960
11	A-4, B-5, C-6	1106

Prime Farmland Soils Within Alternatives (ac)

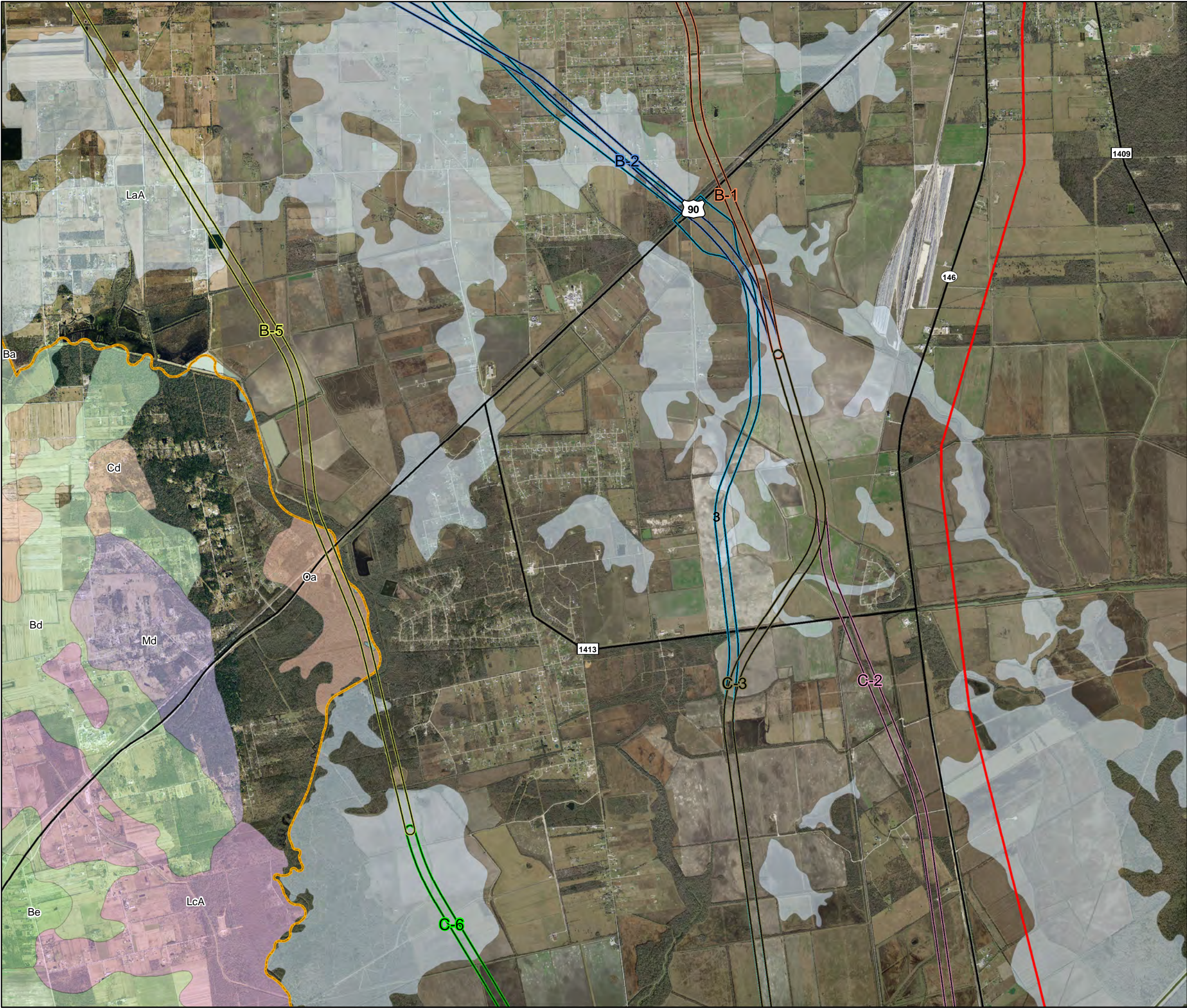


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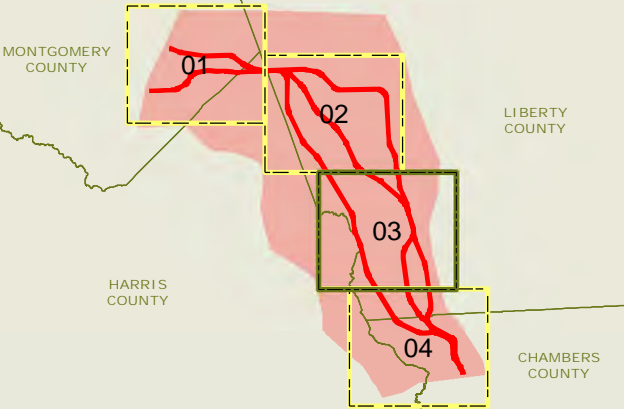
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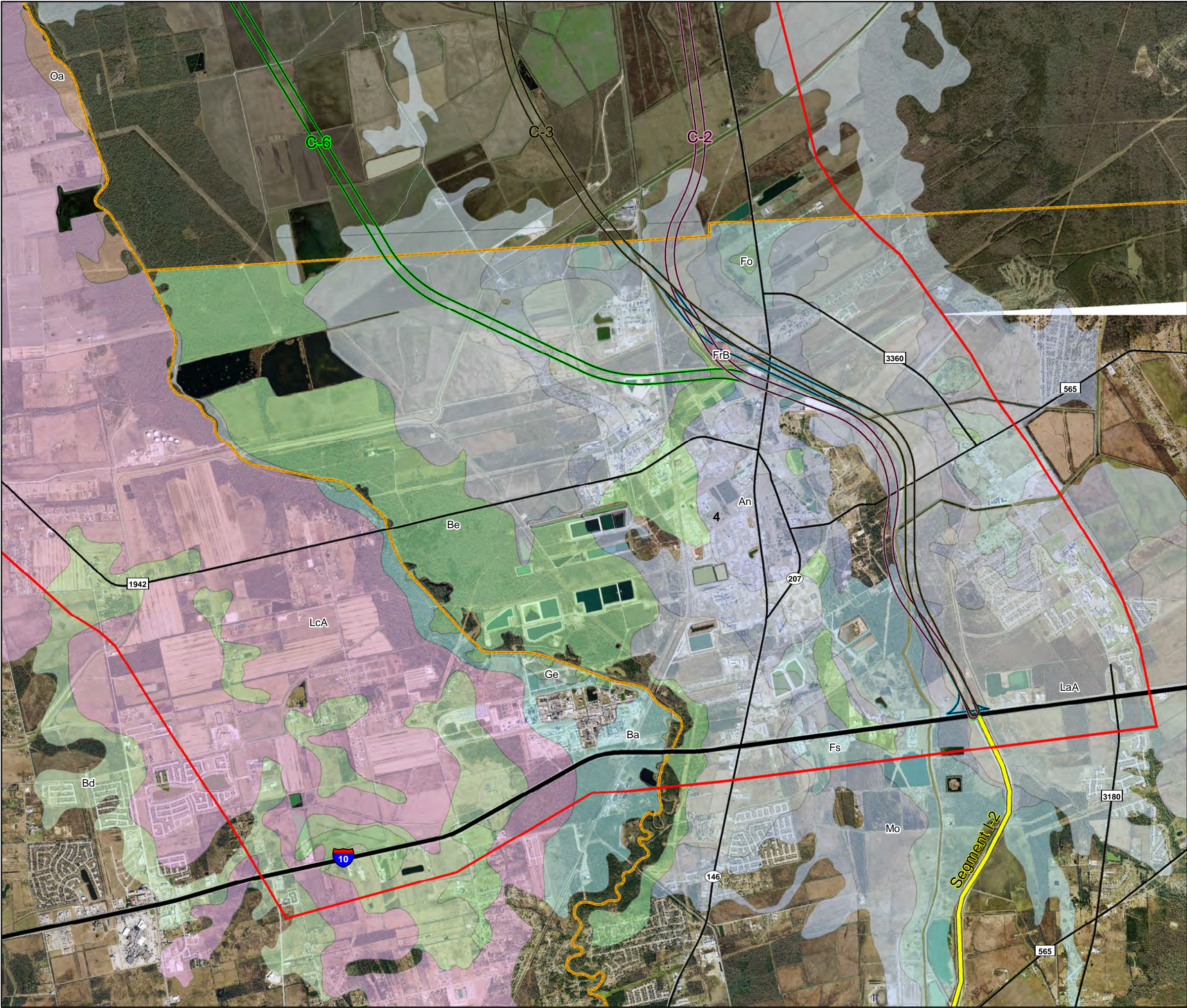


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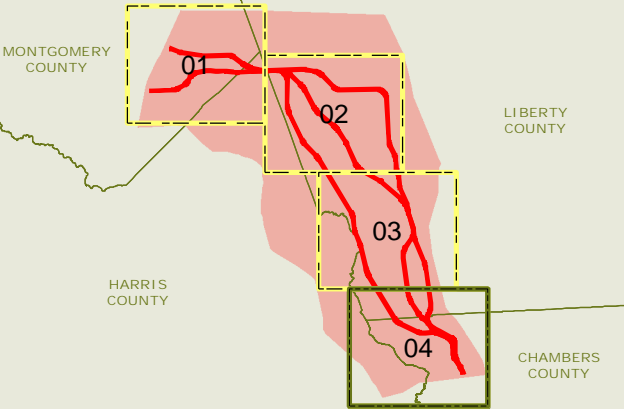
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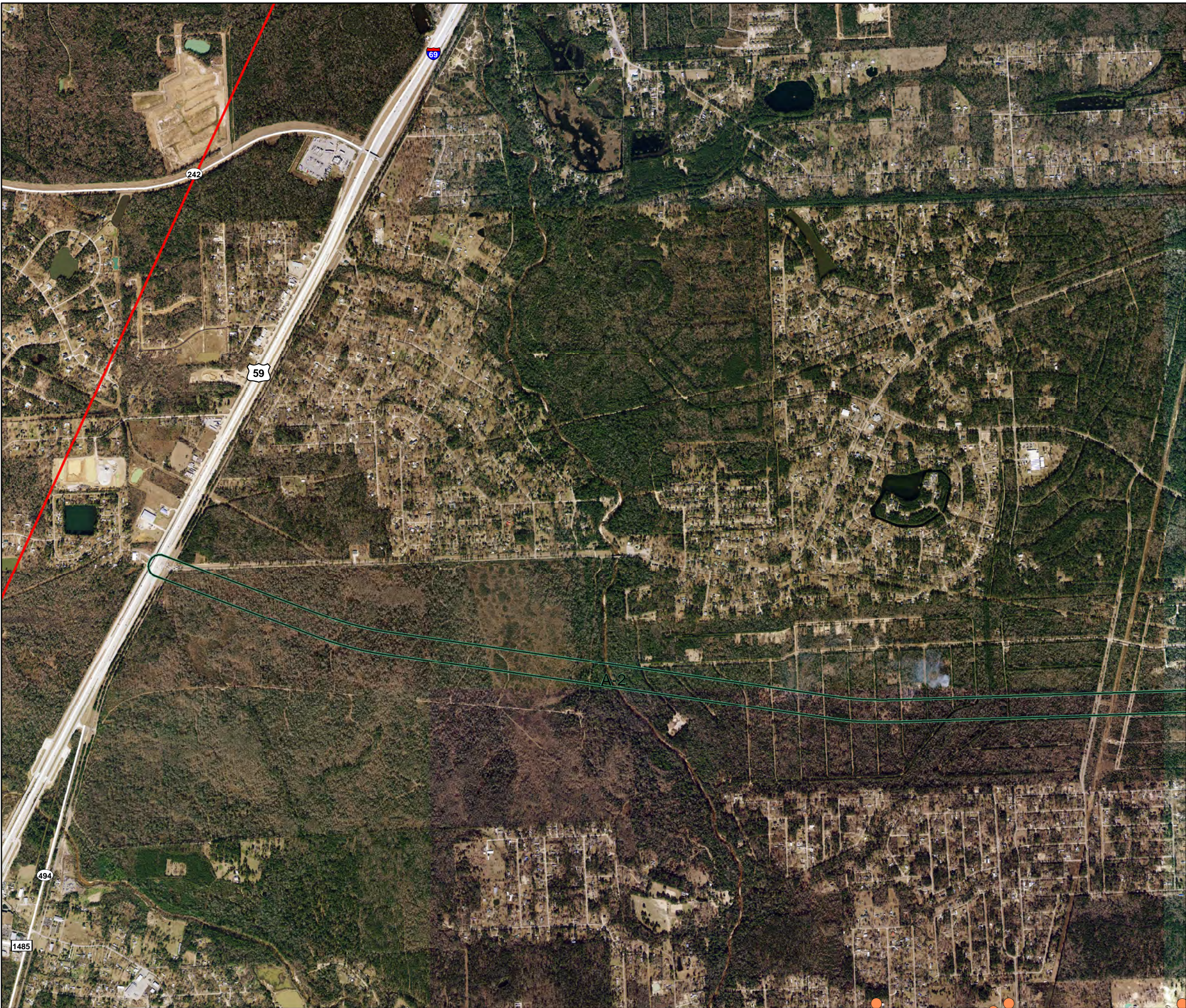


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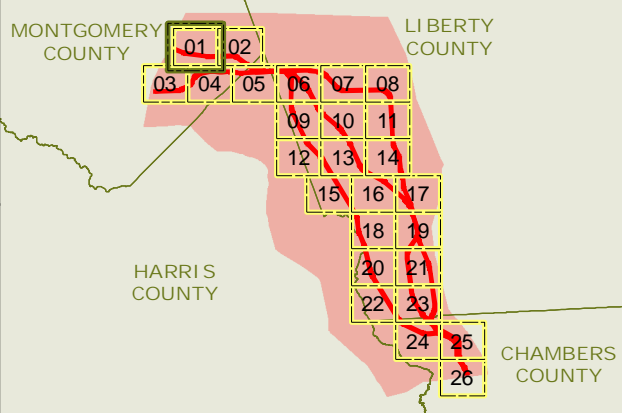
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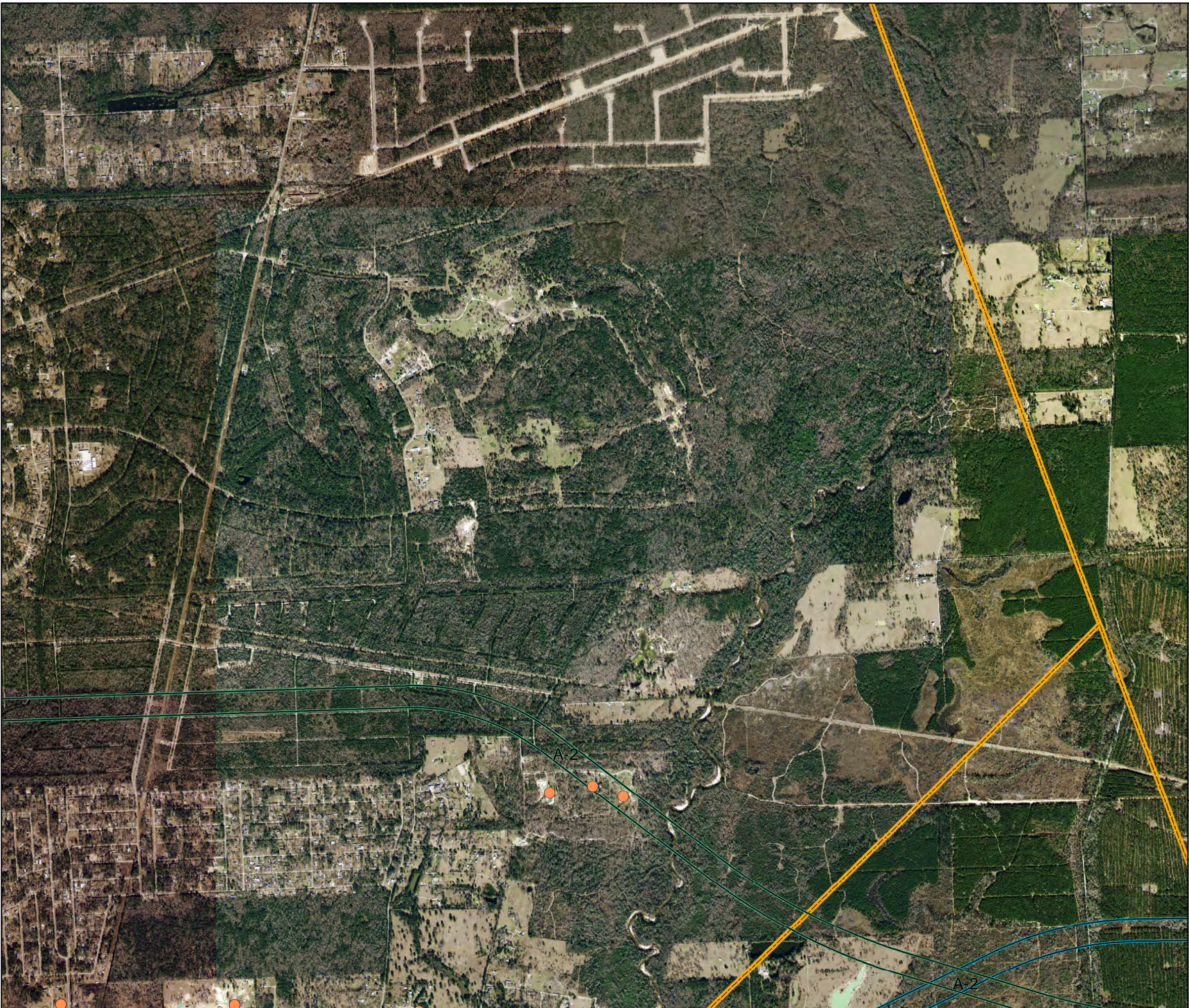
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EXHIBIT: 4-5
Potential Noise Receivers

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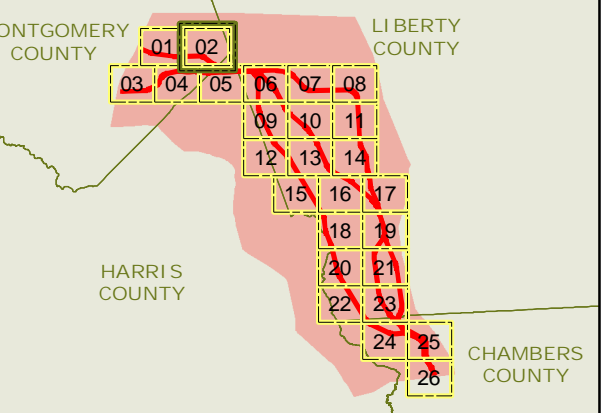
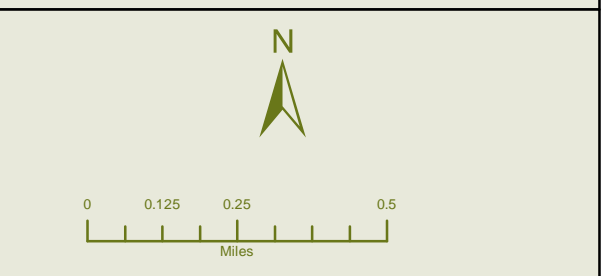
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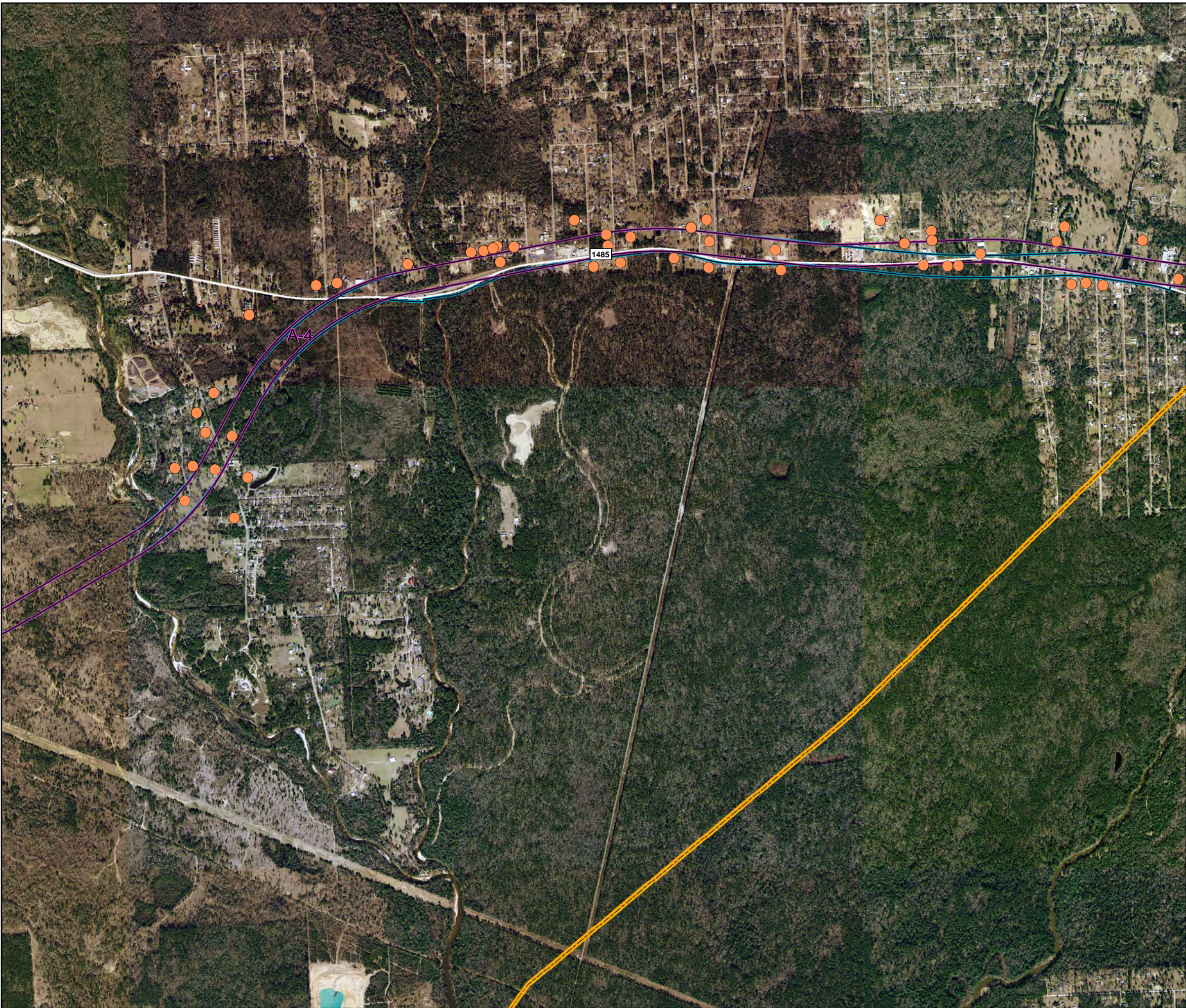
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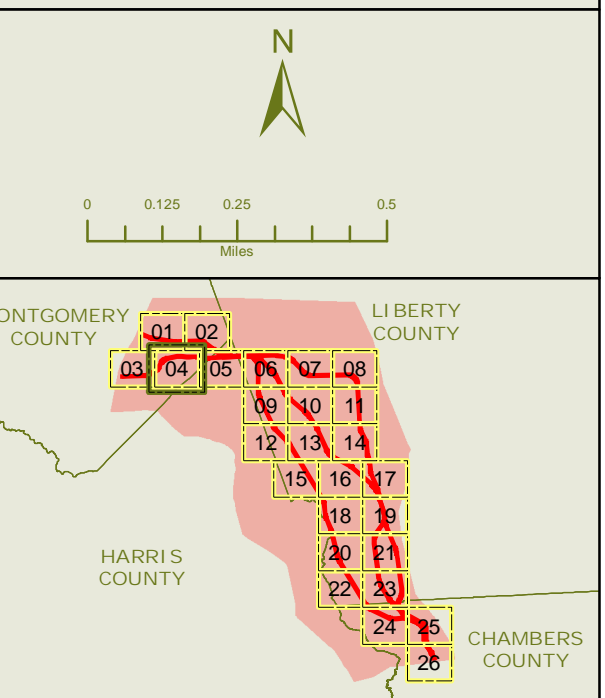
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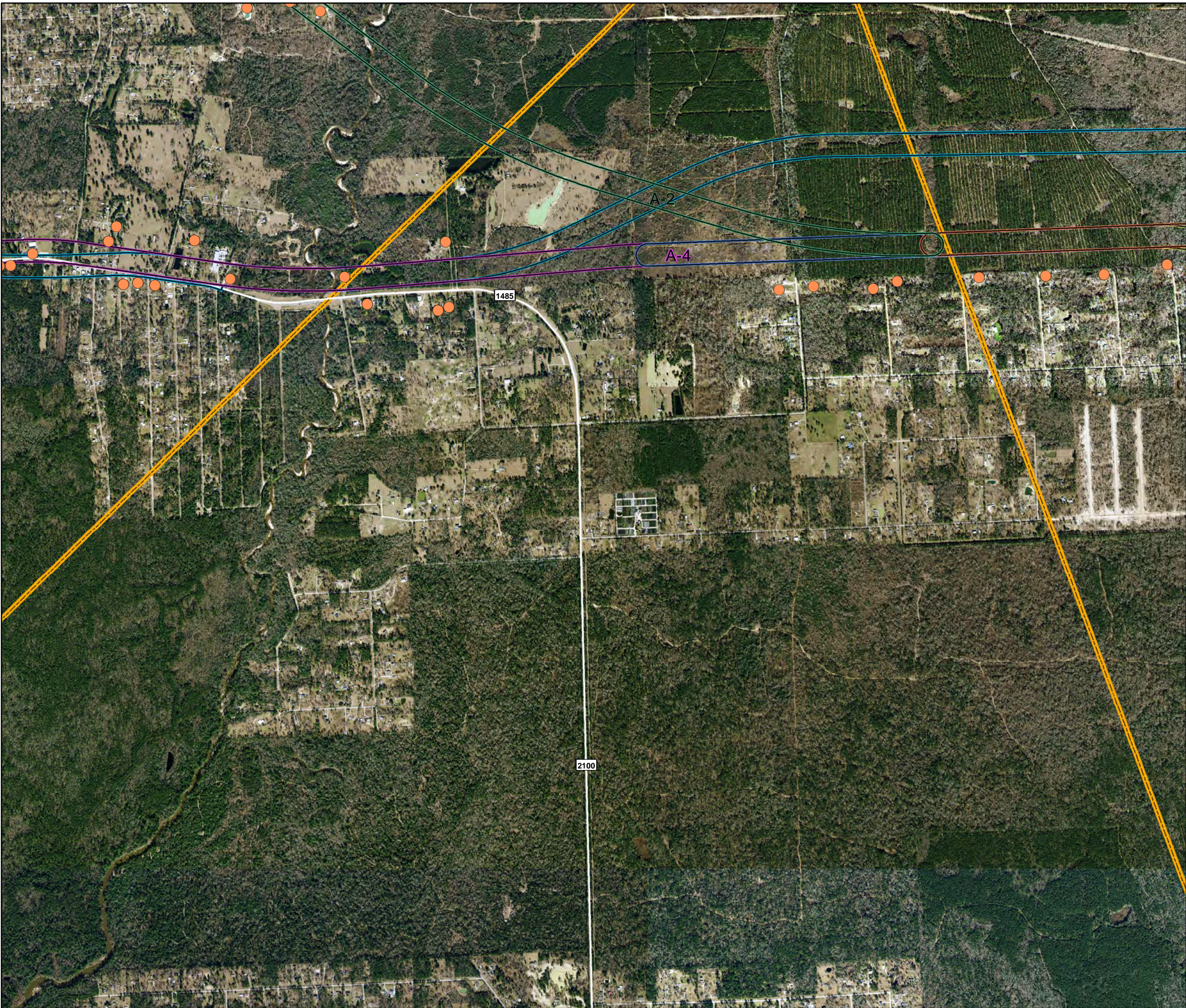
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
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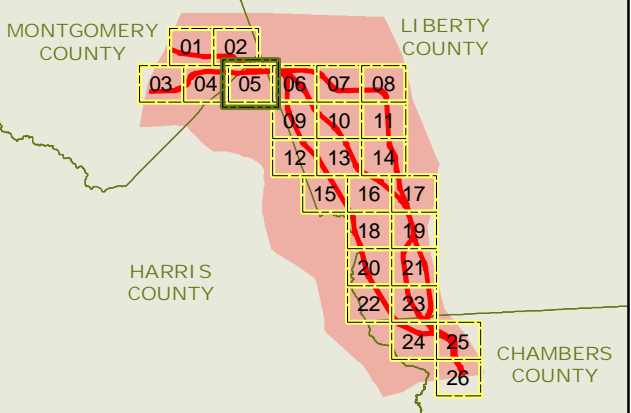
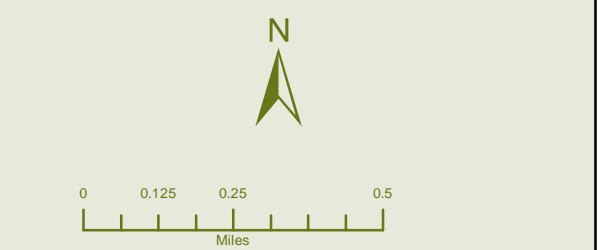
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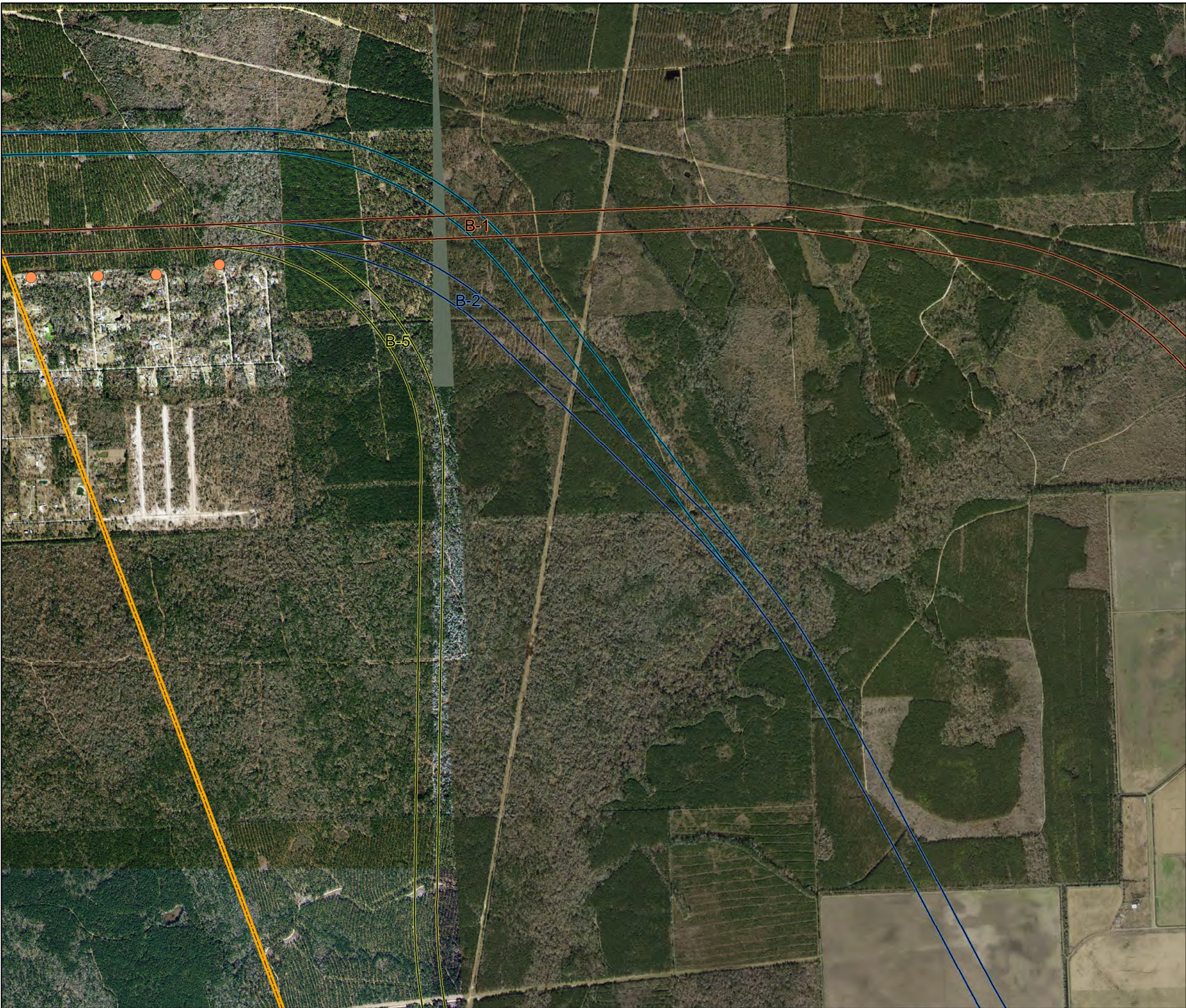
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Grand Parkway
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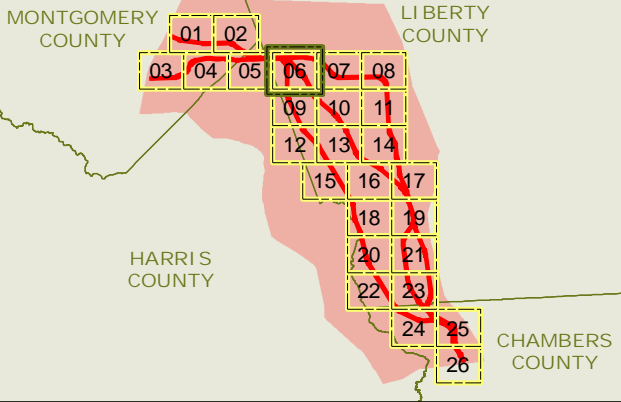
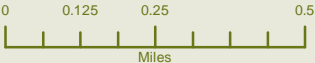


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EXHIBIT: 4-5
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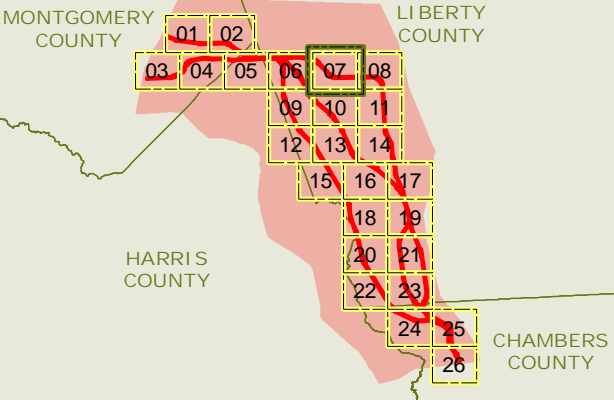
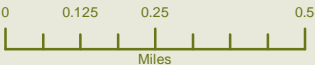


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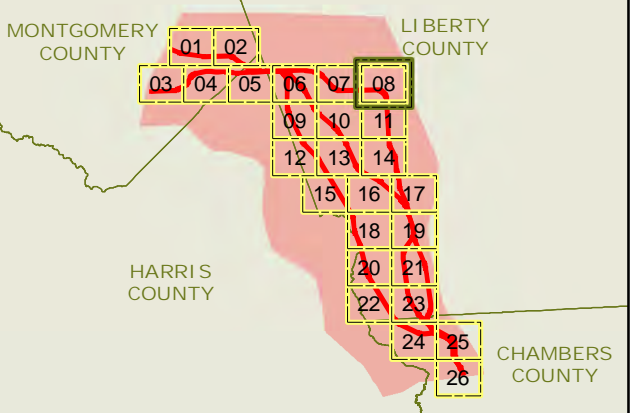
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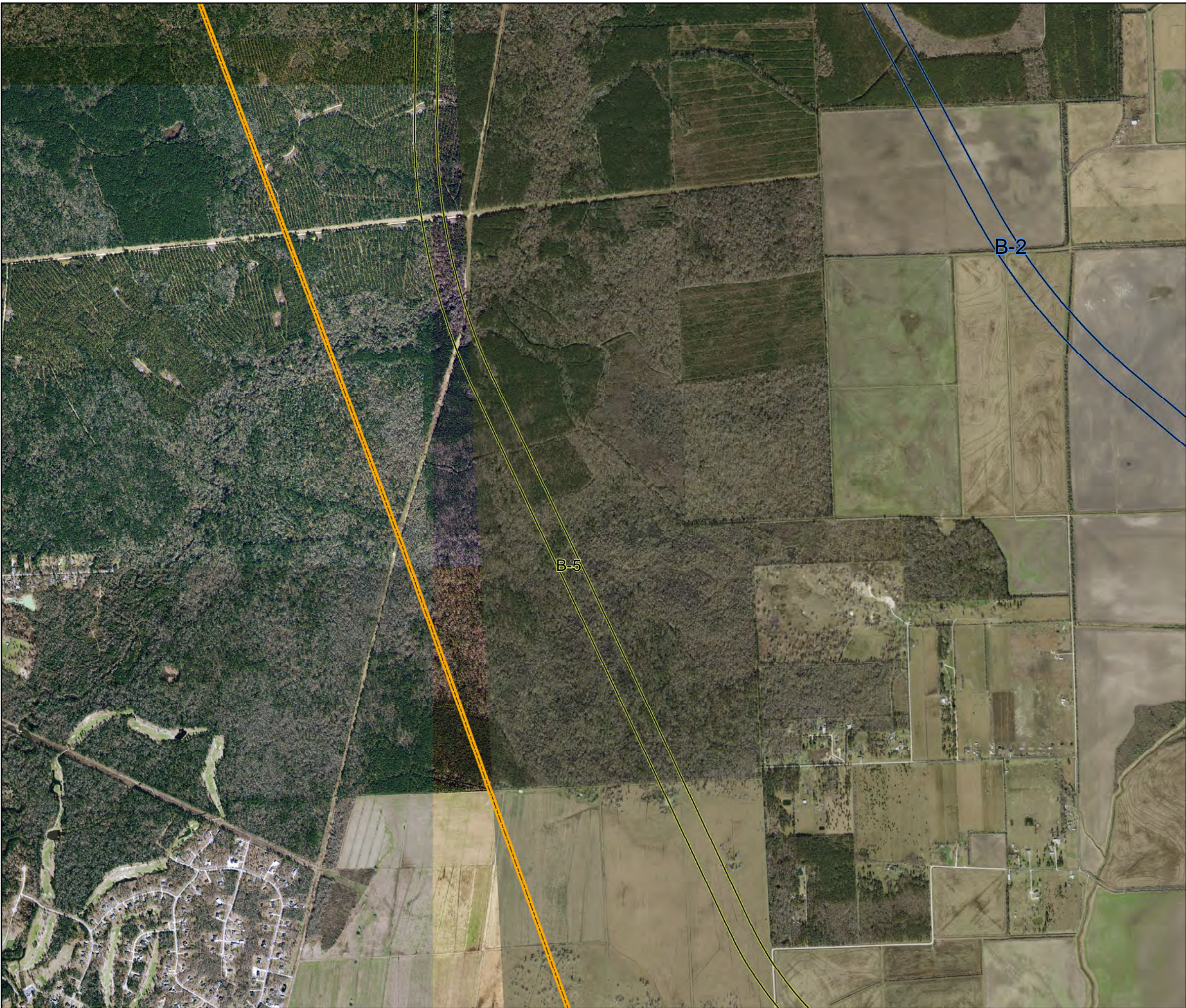
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**EXHIBIT: 4-5
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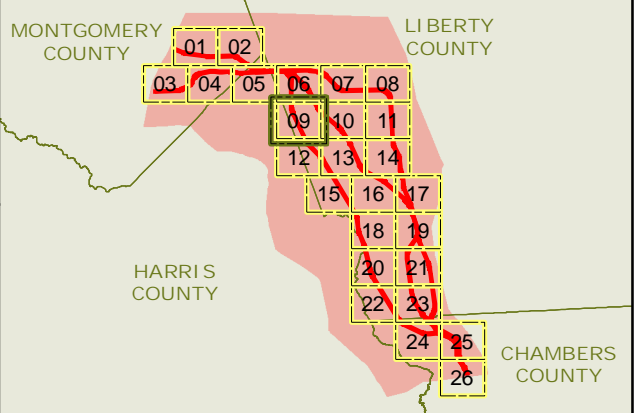
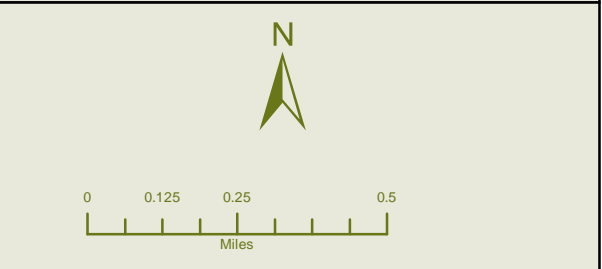
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Source Data: H-GAC, 2008; NAIP, 2008; HNTB, 2007

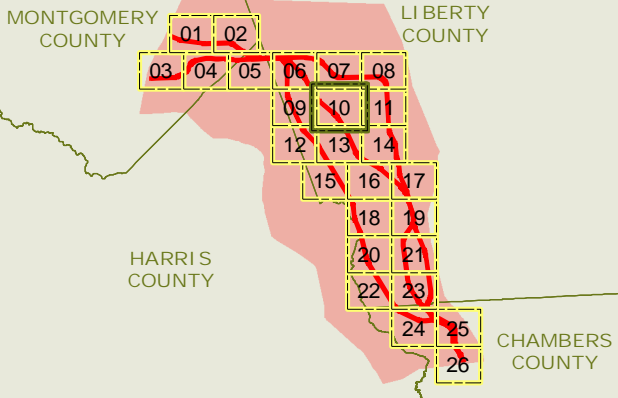
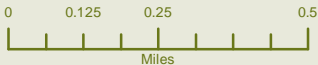


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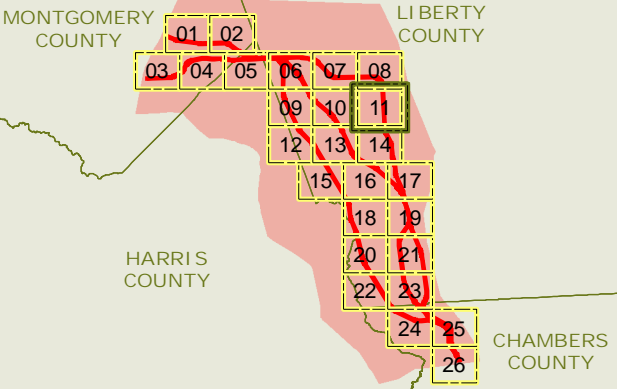
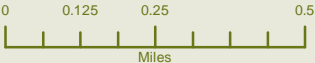


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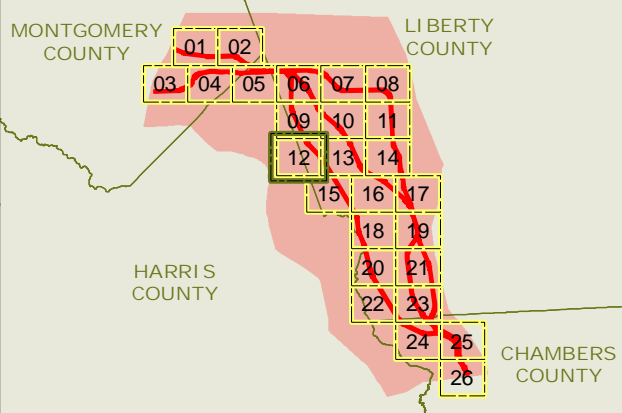
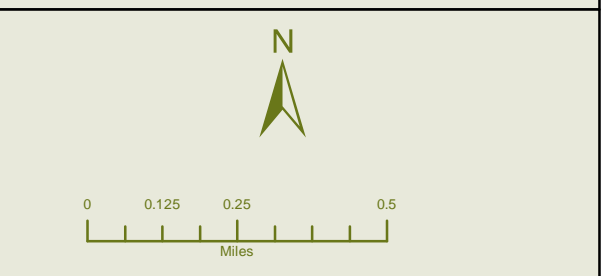
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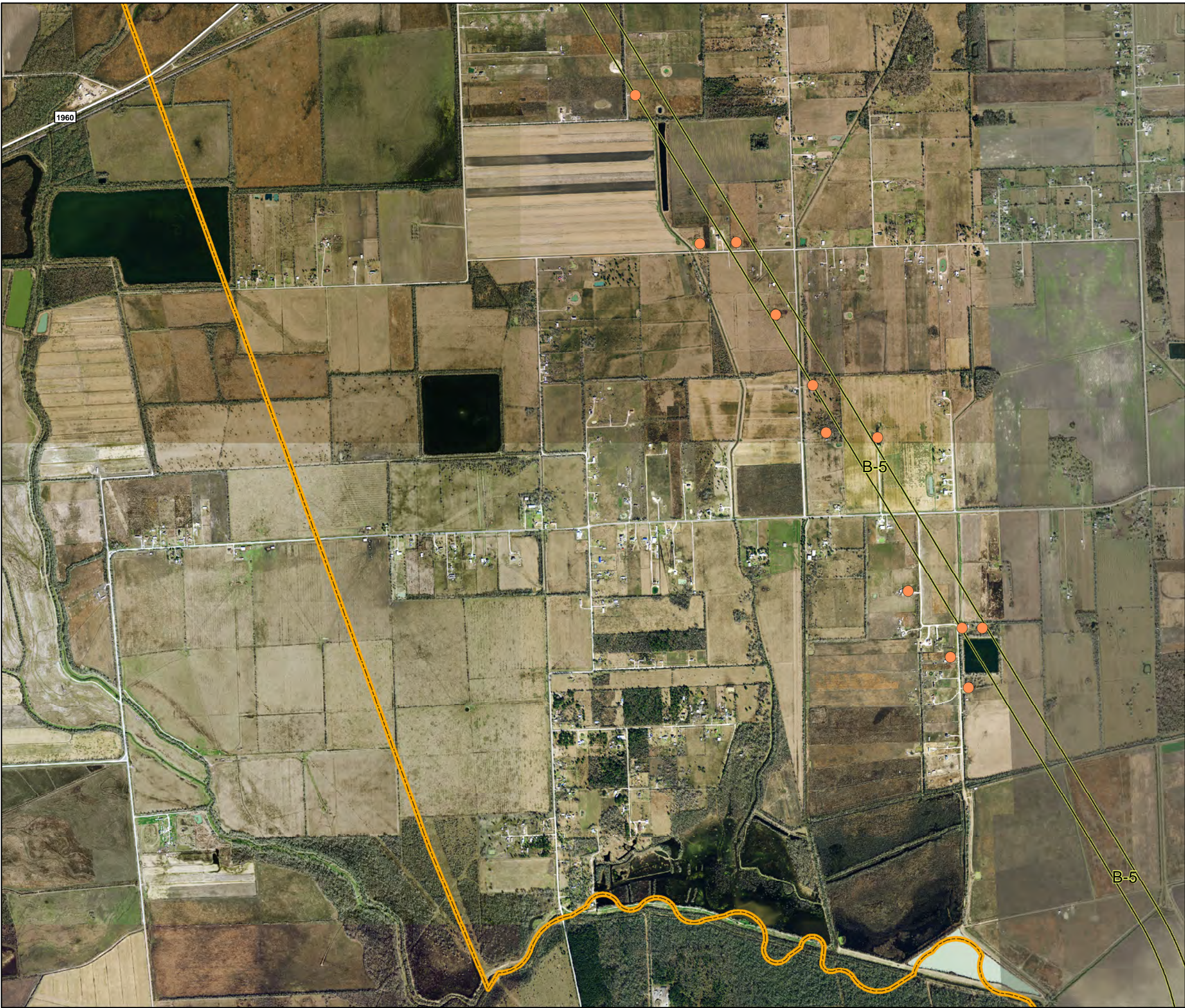
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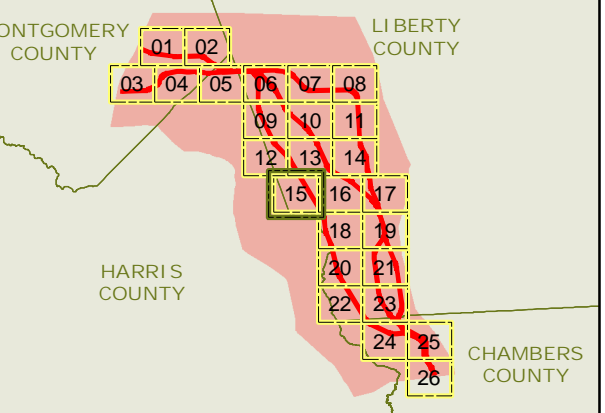
Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)
- Potential Noise Receivers



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-5
Potential Noise Receivers

Page 15 of 26



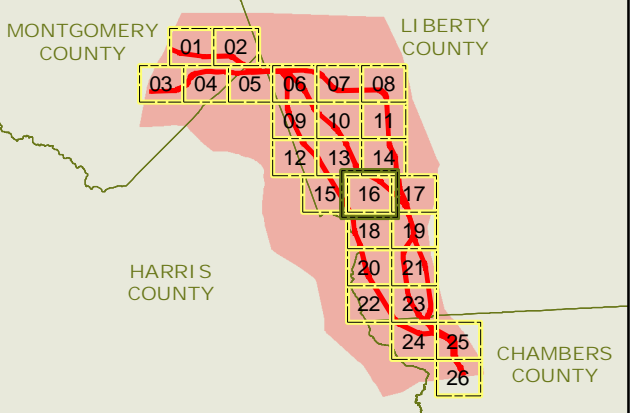
Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)
- Potential Noise Receivers

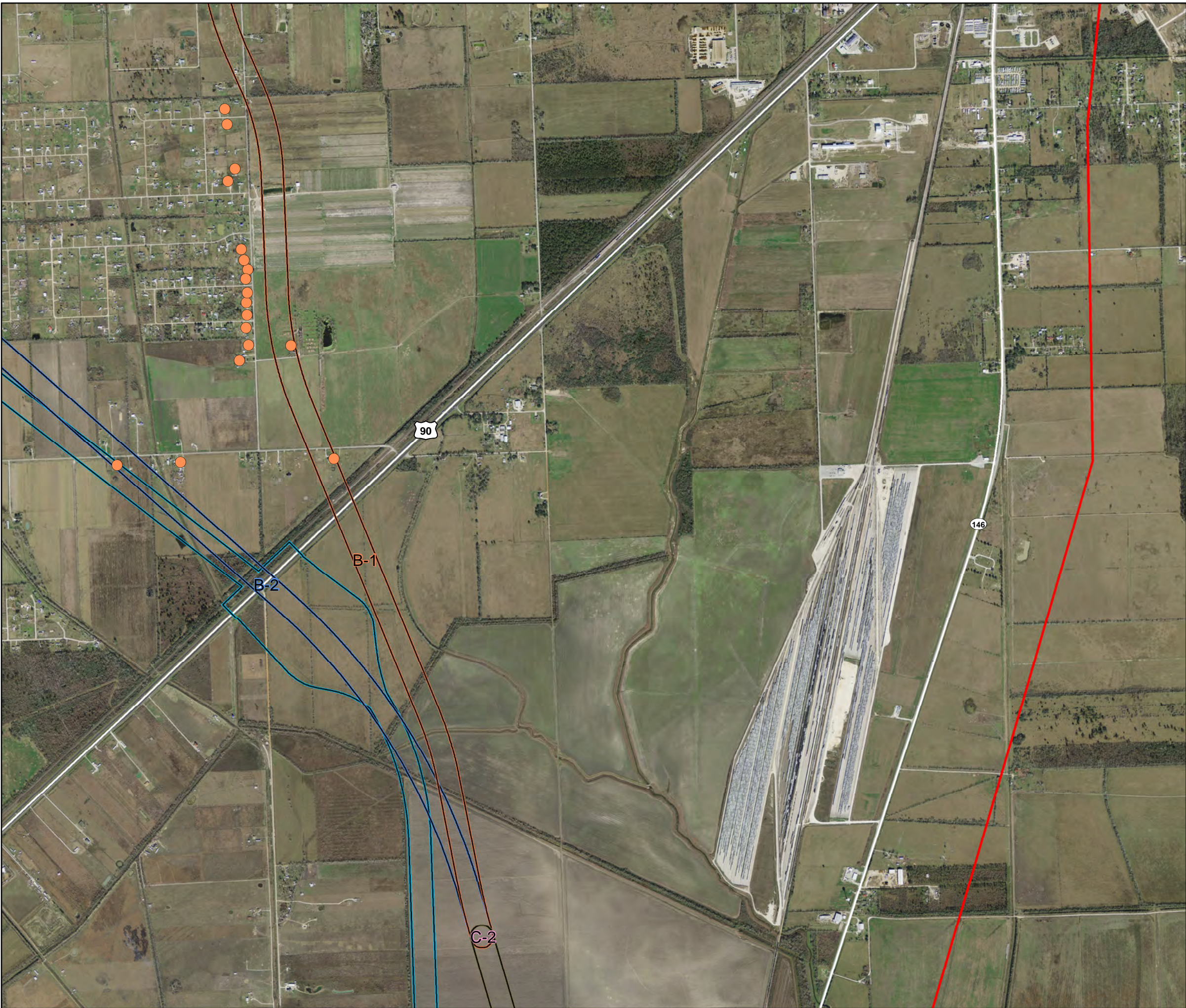


SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-5
Potential Noise Receivers



Source Data: H-GAC, 2008; NAIP, 2008; HNTB, 2007



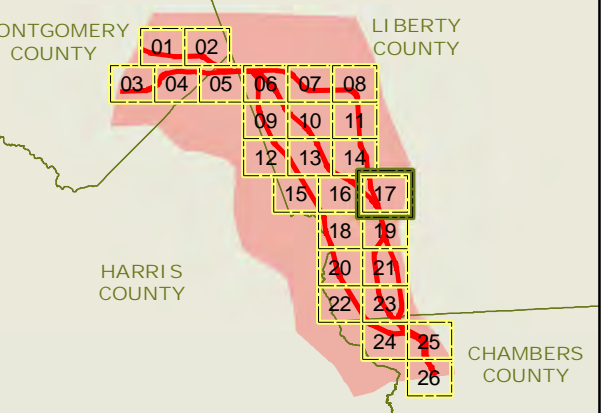
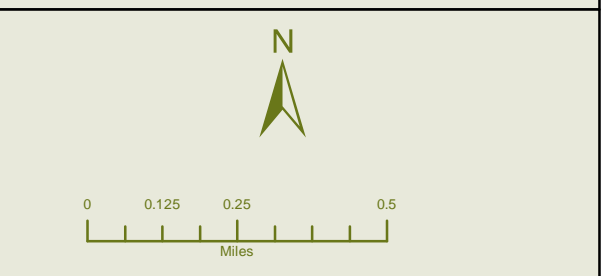
Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index

Sections

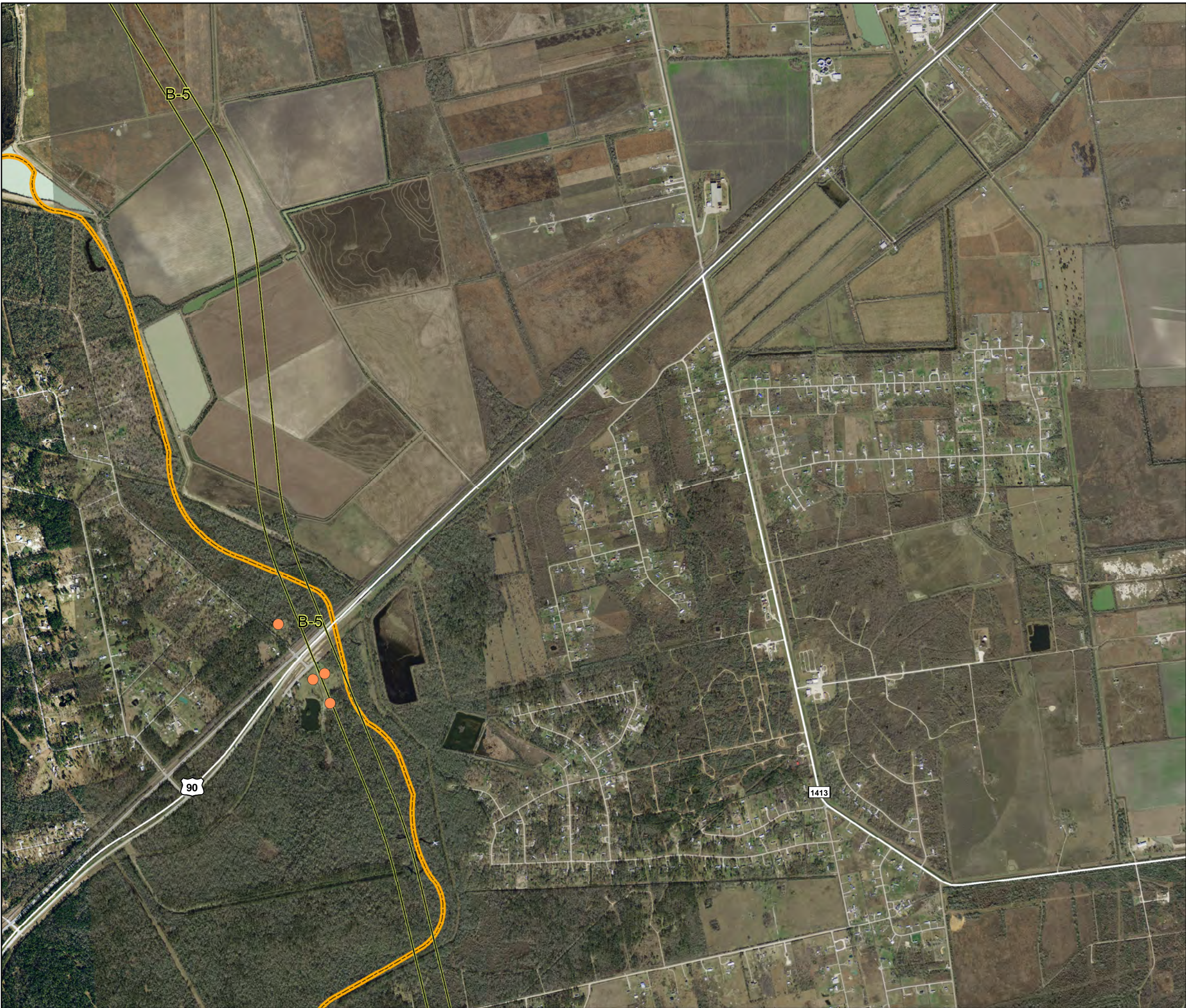
- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)
- Potential Noise Receivers



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-5
Potential Noise Receivers

Page 17 of 26

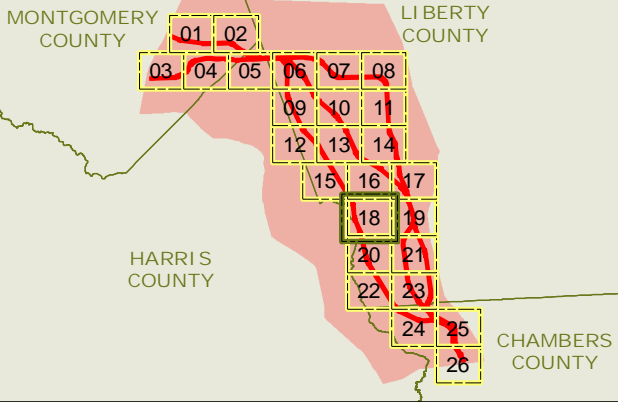
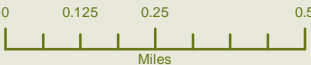


Legend

- Roads and Boundaries**

 - Interstate Highway
 - US Highway
 - State Highway
 - FM Road
 - Study Area
 - County Boundary
 - Map Index
- Sections**

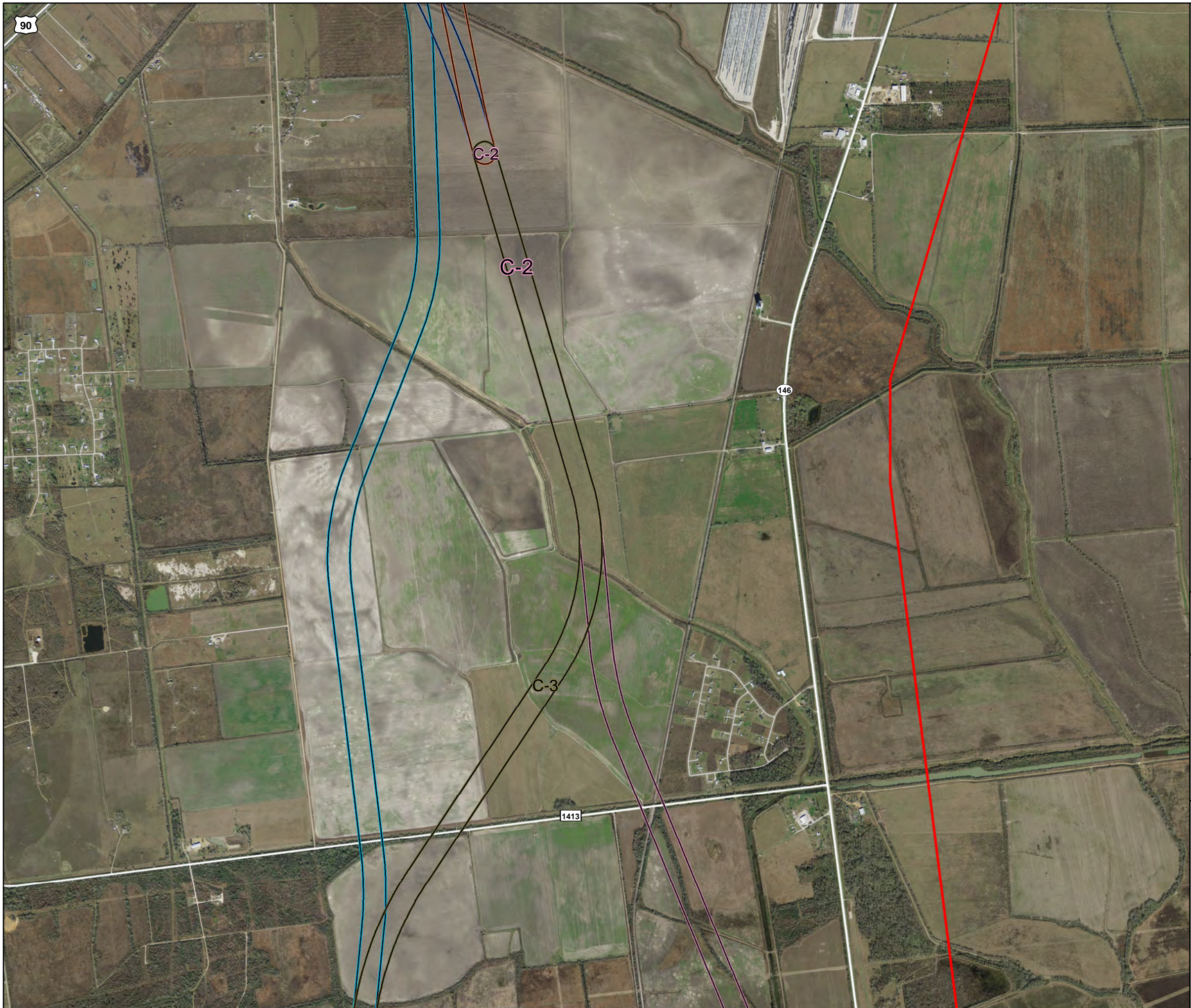
 - A-2 (Alt. 2-6)
 - A-4 (Alt. 7-11)
 - B-1 (Alt. 2,3,7,8)
 - B-2 (Alt. 4,5,9,10)
 - B-5 (Alt. 6,11)
 - C-2 (Alt. 2,4,7,9)
 - C-3 (Alt. 3,5,8,10)
 - C-6 (Alt. 6,11)
 - Updates (Alt. 10R only)
 - Potential Noise Receivers



SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-5
Potential Noise Receivers



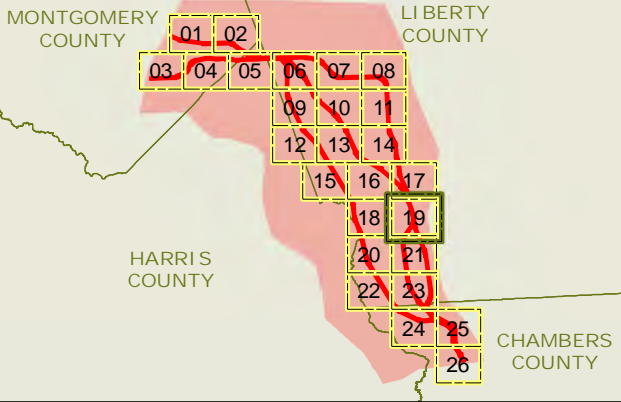
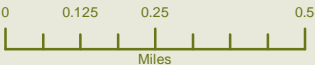


Legend

- Roads and Boundaries**

 - Interstate Highway
 - US Highway
 - State Highway
 - FM Road
 - Study Area
 - County Boundary
 - Map Index
- Sections**

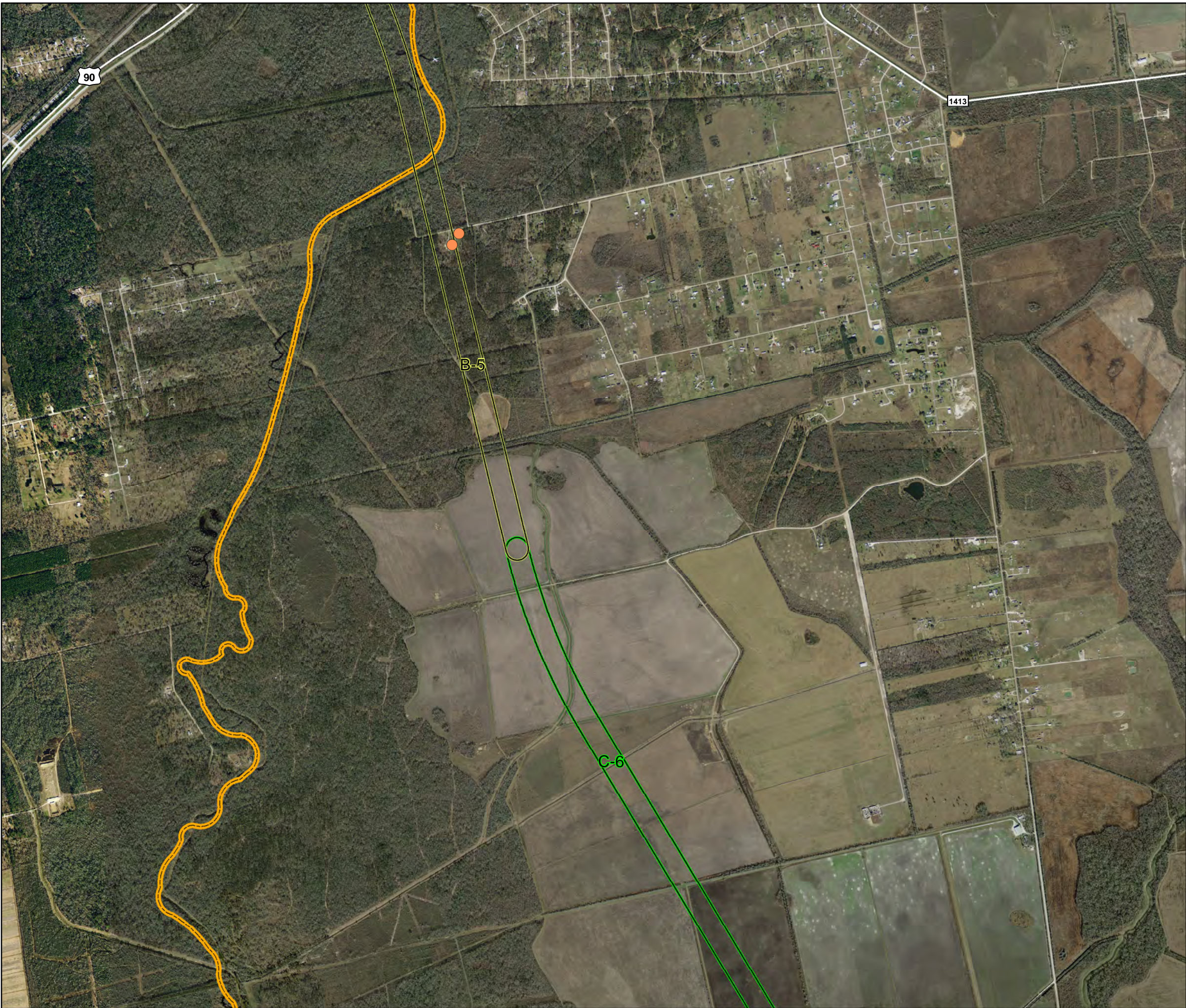
 - A-2 (Alt. 2-6)
 - A-4 (Alt. 7-11)
 - B-1 (Alt. 2,3,7,8)
 - B-2 (Alt. 4,5,9,10)
 - B-5 (Alt. 6,11)
 - C-2 (Alt. 2,4,7,9)
 - C-3 (Alt. 3,5,8,10)
 - C-6 (Alt. 6,11)
 - Updates (Alt. 10R only)
 - Potential Noise Receivers



SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-5
Potential Noise Receivers





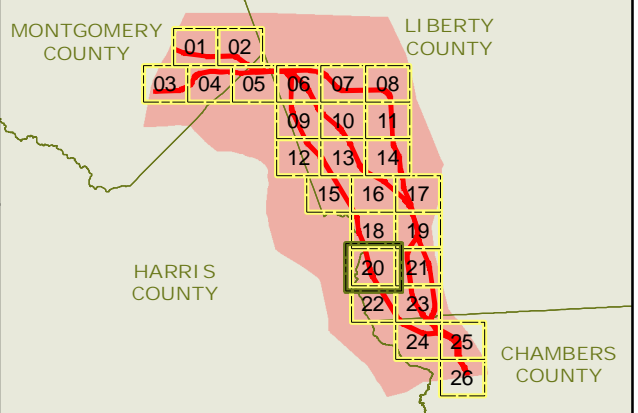
Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)
- Potential Noise Receivers



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-5
Potential Noise Receivers

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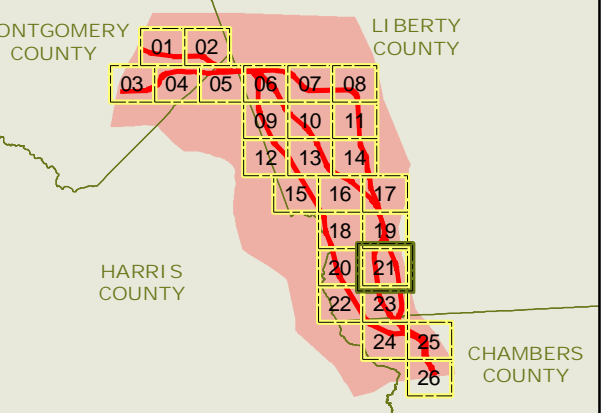
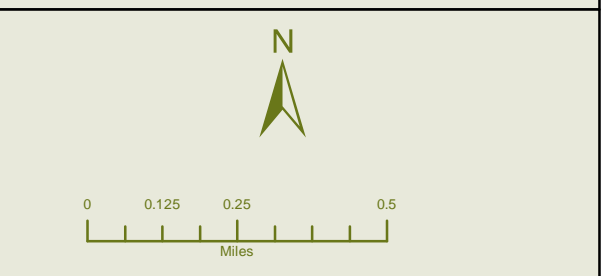
Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)
- Potential Noise Receivers



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-5
Potential Noise Receivers

Page 21 of 26



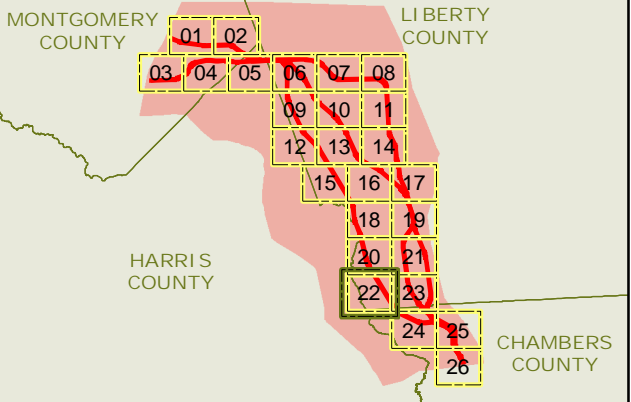
Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)
- Potential Noise Receivers



SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-5
Potential Noise Receivers





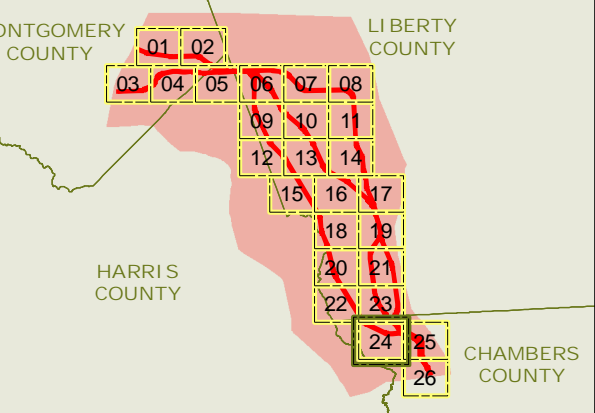
Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)
- Potential Noise Receivers



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-5
Potential Noise Receivers

Page 24 of 26



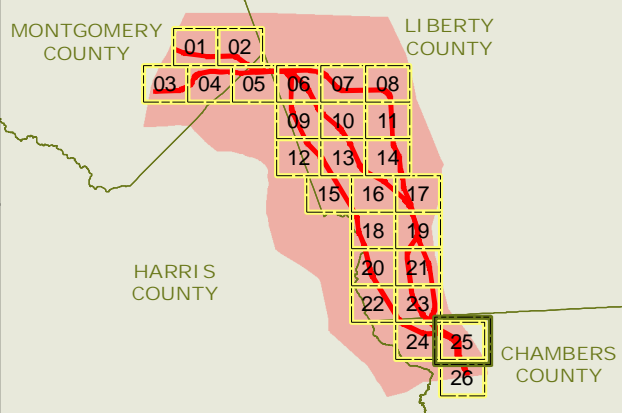
Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index

Sections

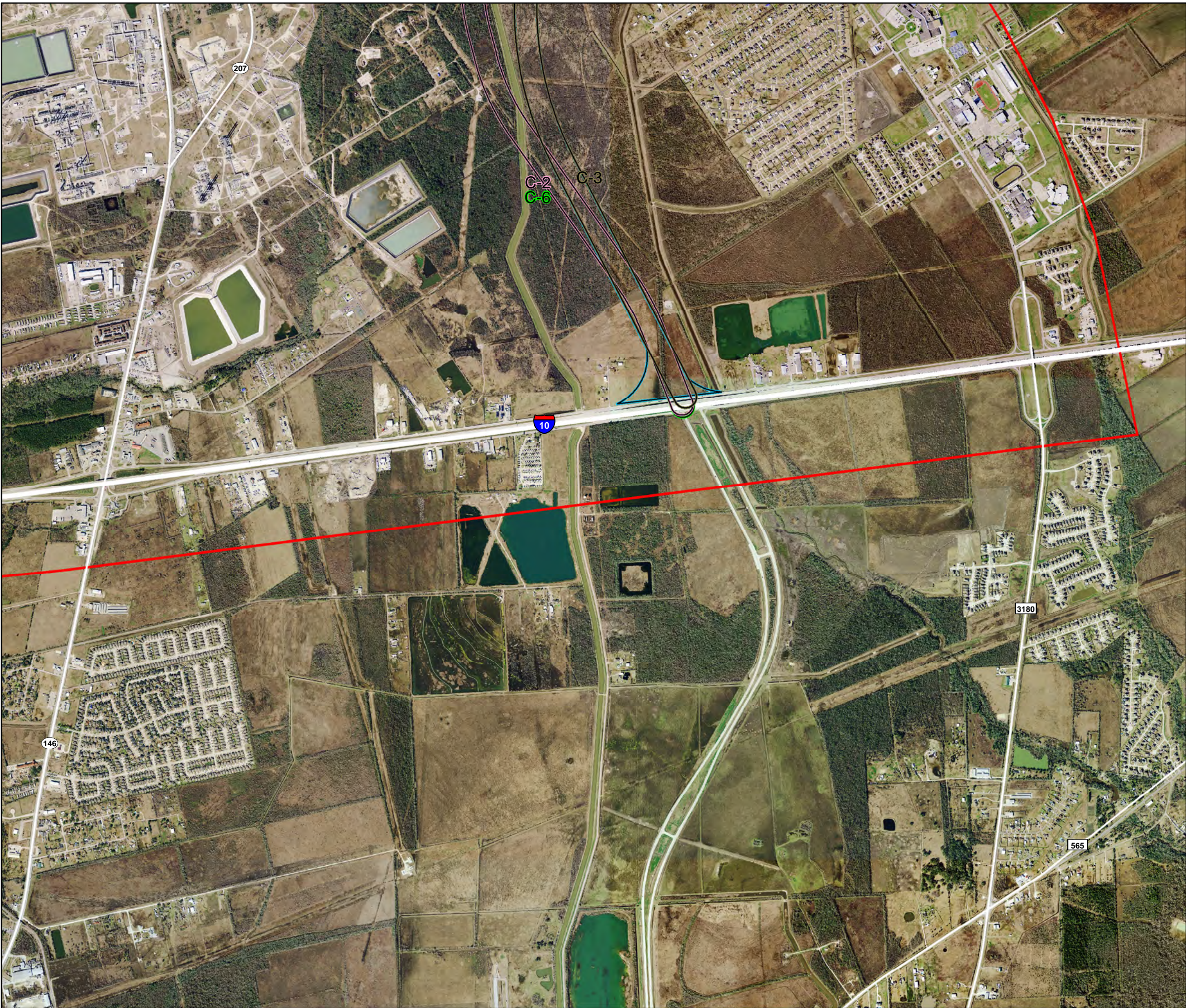
- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)
- Potential Noise Receivers



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-5
Potential Noise Receivers

Page 25 of 26



Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)
- Potential Noise Receivers

SH 99: US 59 (N)/I-69 to I-10 (E)

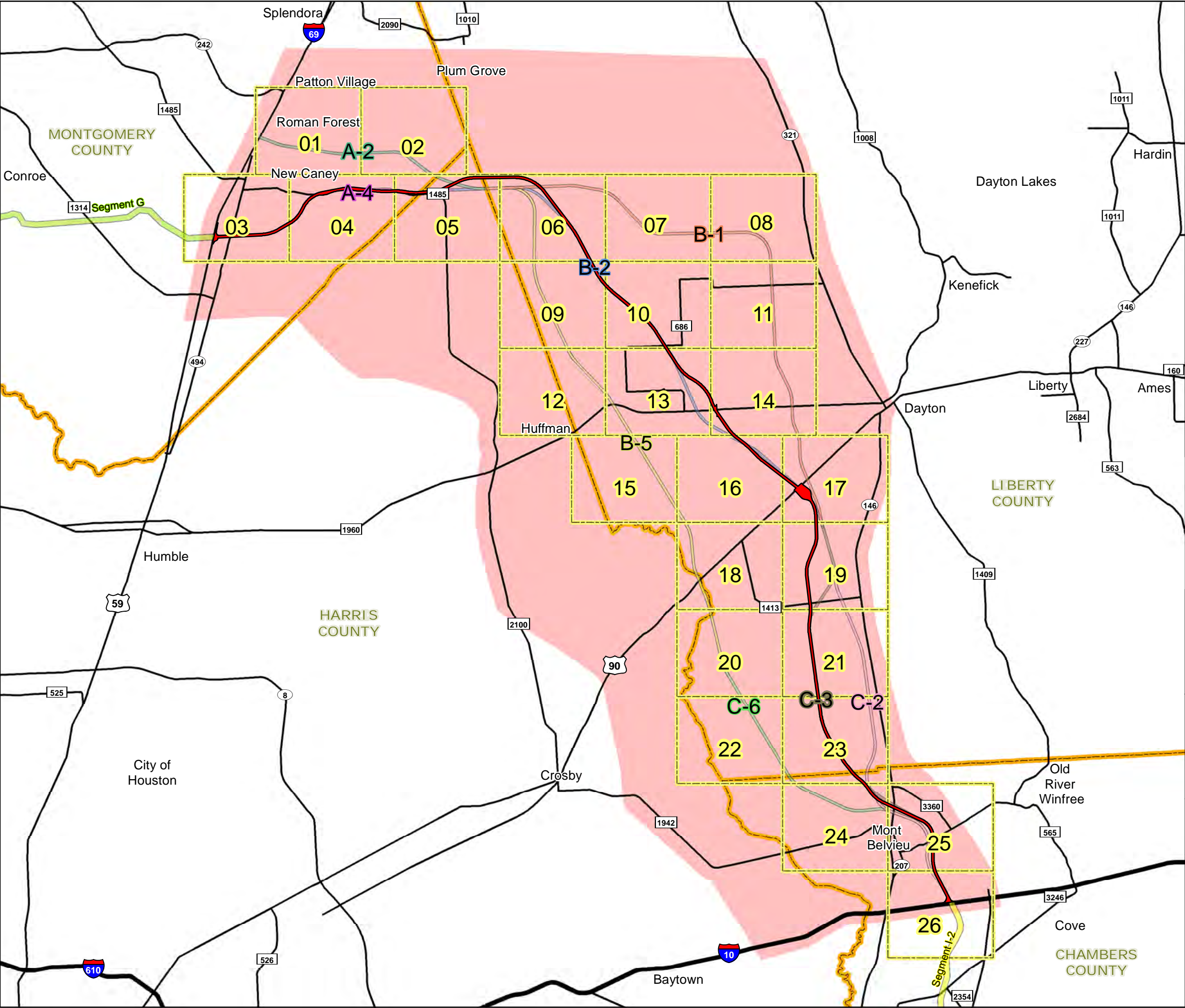
Grand Parkway

Segments H and I-1

EXHIBIT: 4-5

Potential Noise Receivers

Page 26 of 26



Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- Preferred Alignment
- Segment G
- Segment I-2

Sections

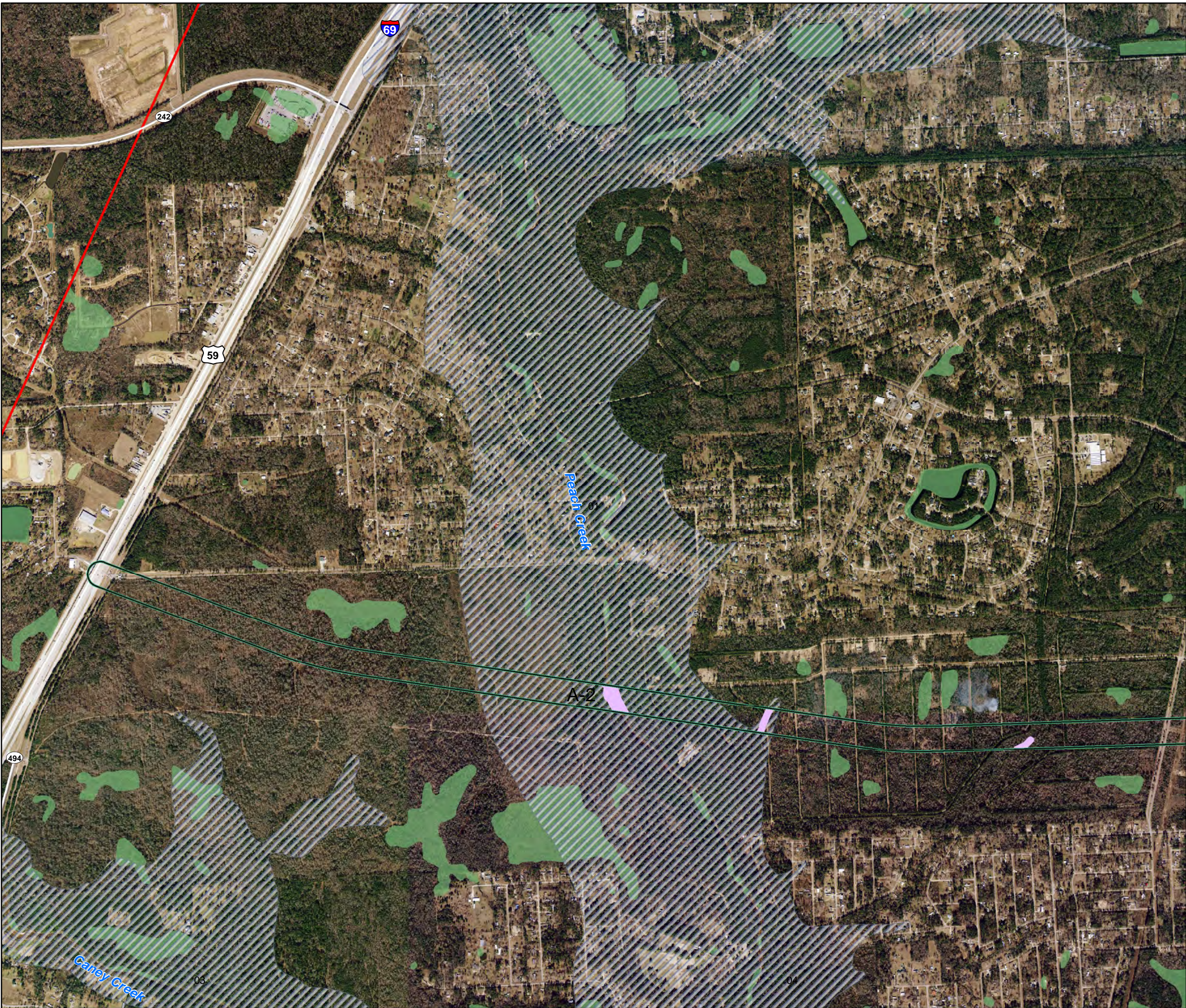
- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)

SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains

Map Index

Source Data: H-GAC, 2008; NAIP, 2008; FEMA, 1995, 1996, 1998, 2006; National Wetlands Inventory, 2004; HNTB, 2012



Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

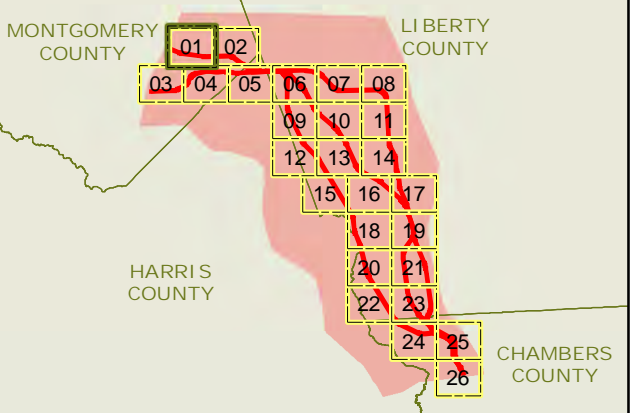
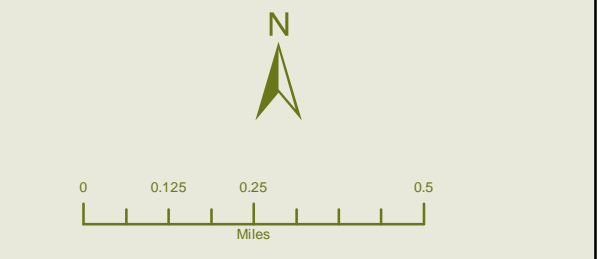
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)

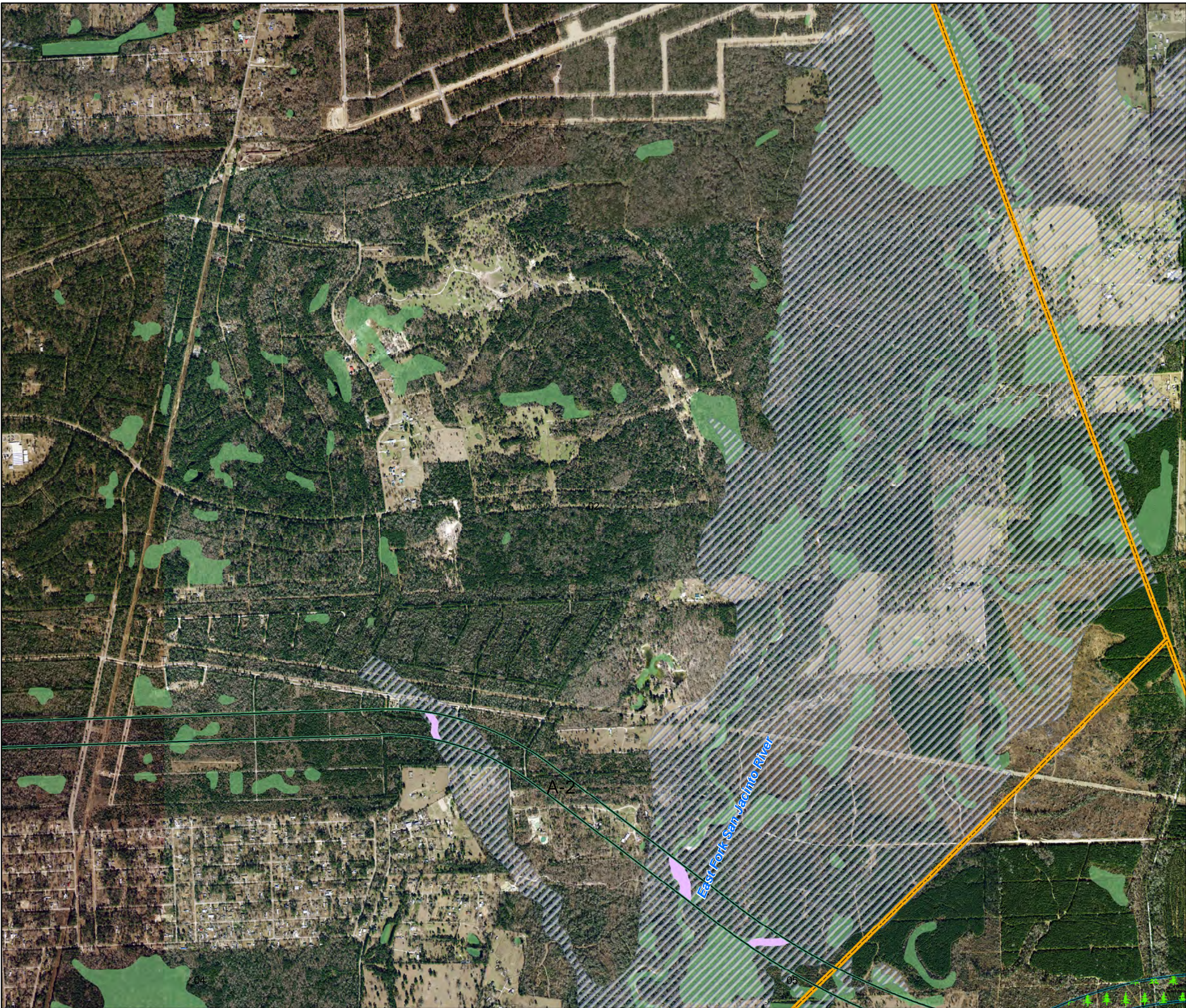


SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains



Source Data: H-GAC, 2008; NAIP, 2008; FEMA, 1995, 1996, 1998, 2006; National Wetlands Inventory, 2004; HNTB, 2012



Roads and Boundaries

Interstate Highway

US Highway

State Highway

FM Road

Study Area

County Boundary

Map Index

100-Year Floodplain

NWI Wetlands

Sections

A-2 (Alt. 2-6)

A-4 (Alt. 7-11)

B-1 (Alt. 2,3,7,8)

B-2 (Alt. 4,5,9,10)

B-5 (Alt. 6,11)

C-2 (Alt. 2,4,7,9)

C-3 (Alt. 3,5,8,10)

C-6 (Alt. 6,11)

Updates (Alt. 10R only)

**Vegetative Communities Within ROW
(Photo-Interpreted)**

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

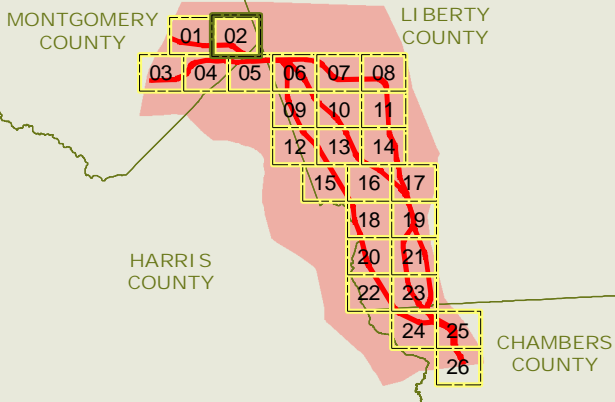
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E)

Grand Parkway

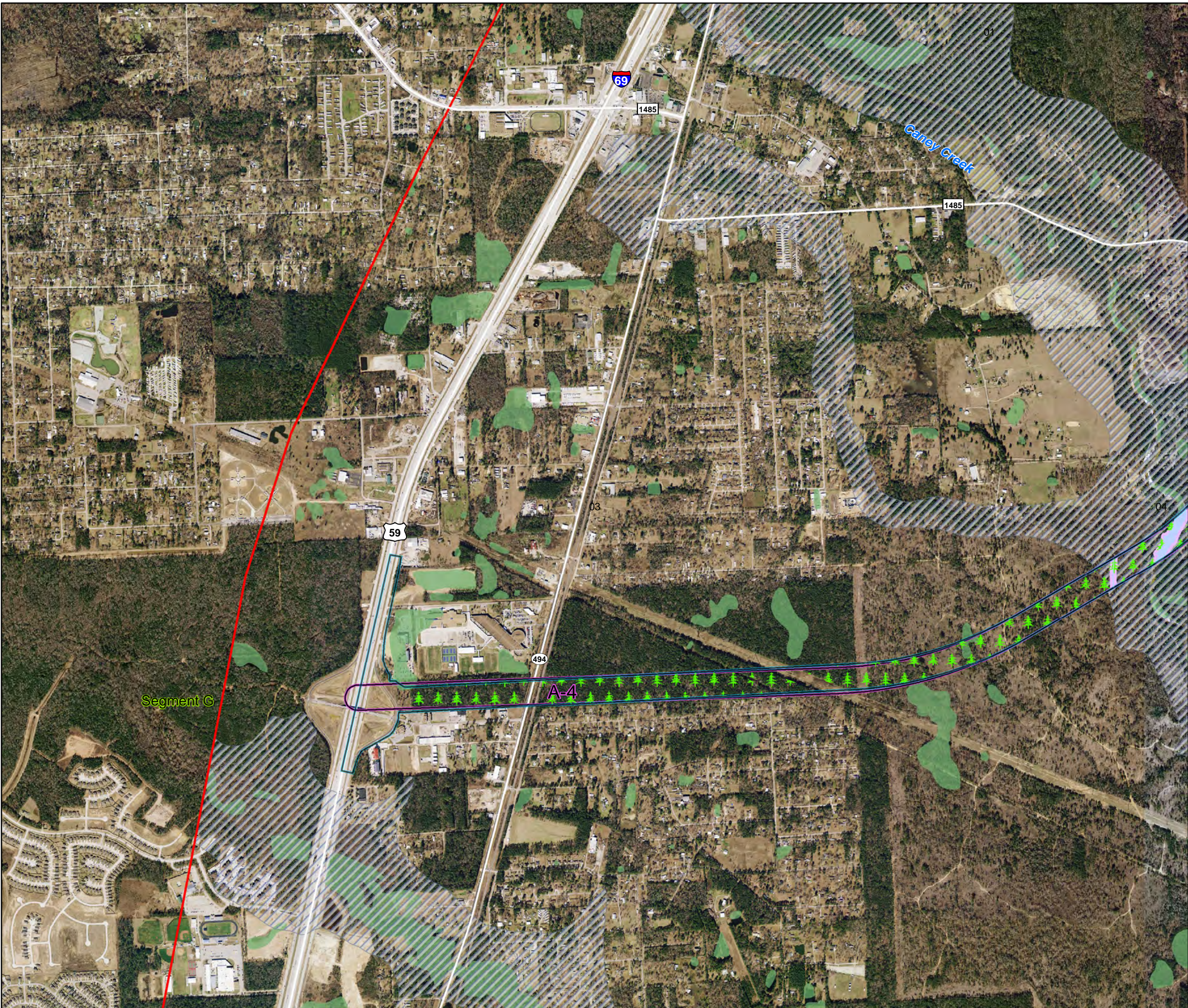
Segments H and I-1

EXHIBIT: 4-6

Wetlands, Vegetative

Communities, and Floodplains





Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

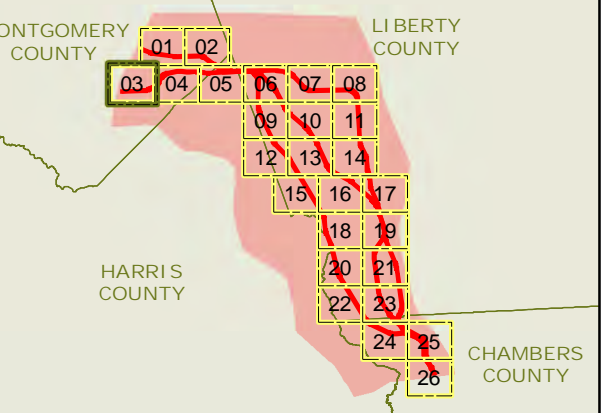
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

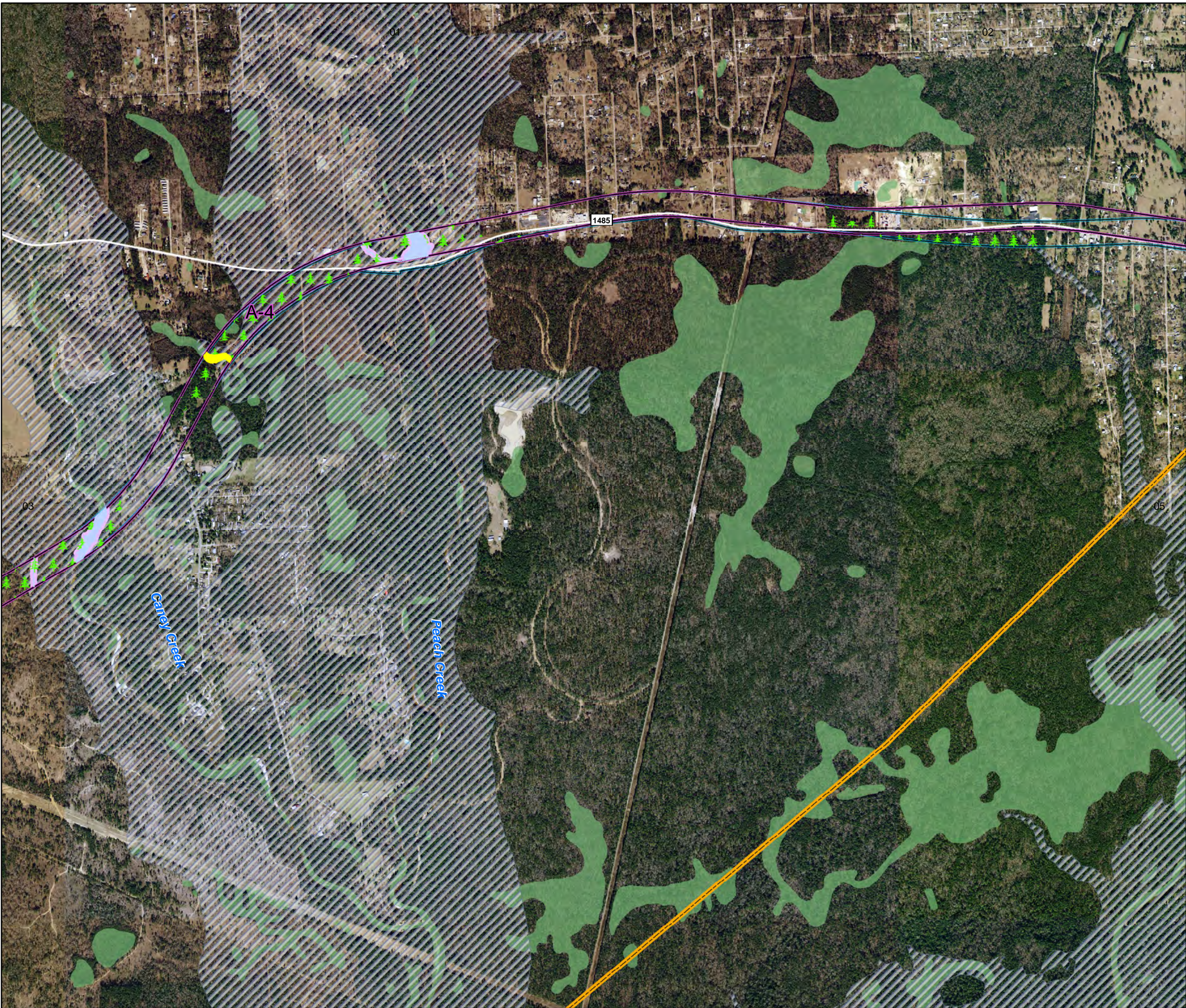
Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1
EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains

Page 3 of 26



Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

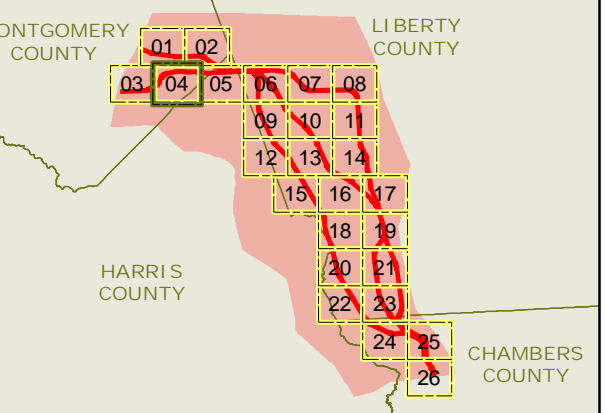
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

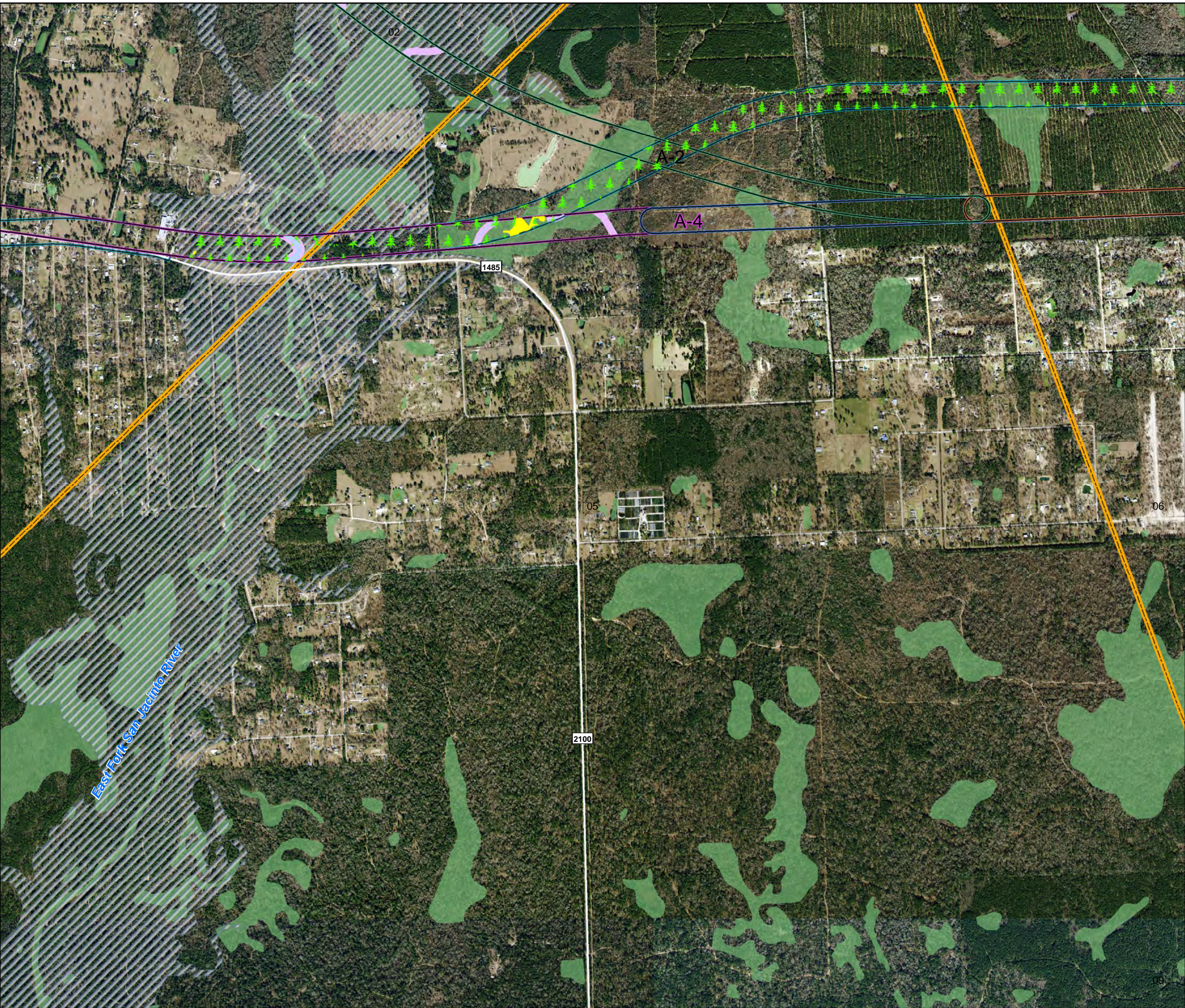
Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains

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Legend

Roads and Boundaries

Interstate Highway

US Highway

State Highway

FM Road

Study Area

County Boundary

Map Index

100-Year Floodplain

NWI Wetlands

Sections

A-2 (Alt. 2-6)

A-4 (Alt. 7-11)

B-1 (Alt. 2,3,7,8)

B-2 (Alt. 4,5,9,10)

B-5 (Alt. 6,11)

C-2 (Alt. 2,4,7,9)

C-3 (Alt. 3,5,8,10)

C-6 (Alt. 6,11)

Updates (Alt. 10R only)

**Vegetative Communities Within ROW
(Photo-Interpreted)**

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

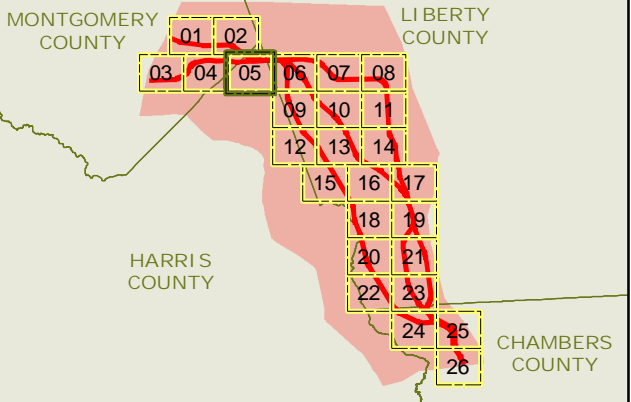
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)

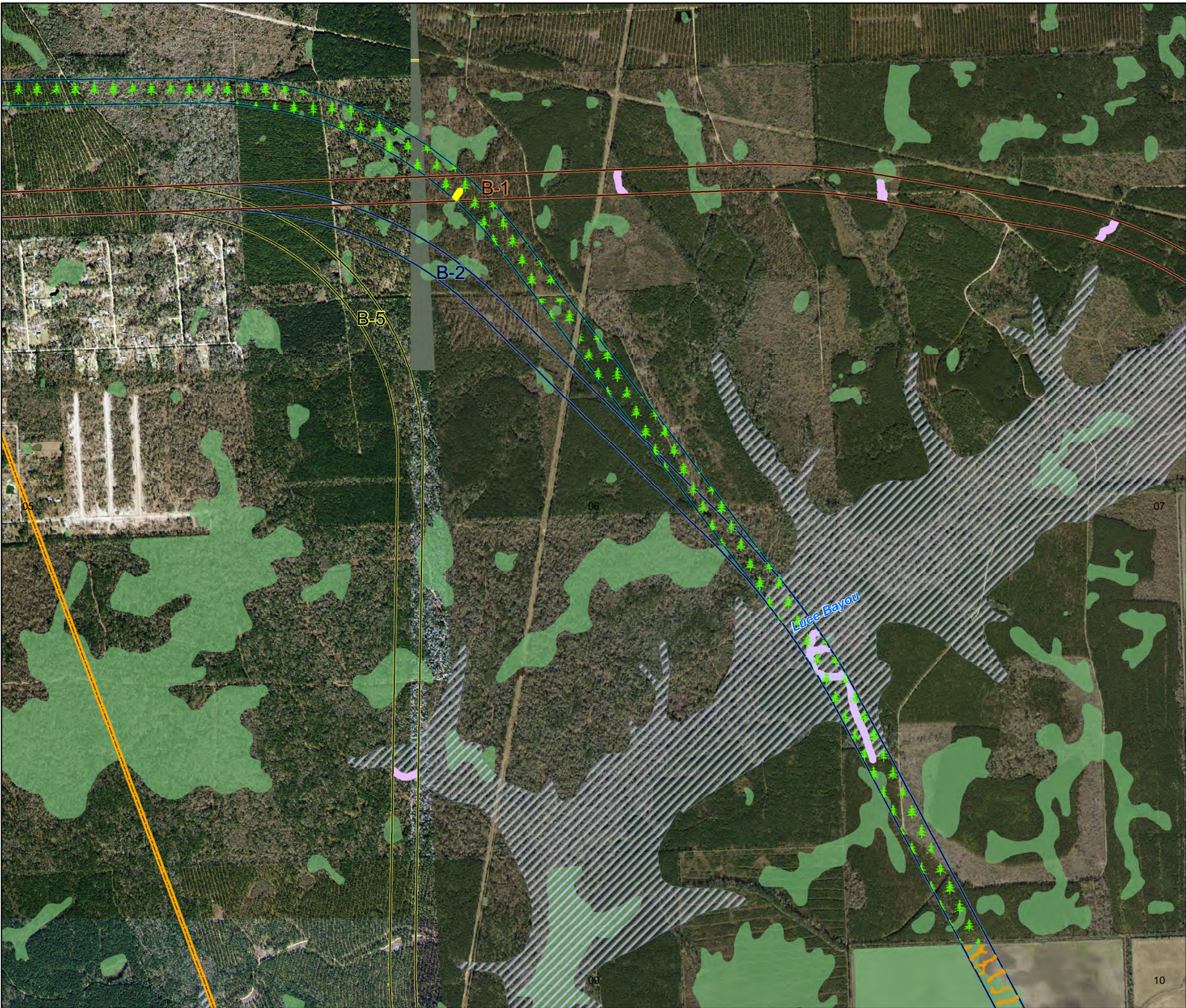


SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains



Source Data: H-GAC, 2008; NAIP, 2008; FEMA, 1995, 1996, 1998, 2006; National Wetlands Inventory, 2004; HNTB, 2012



Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

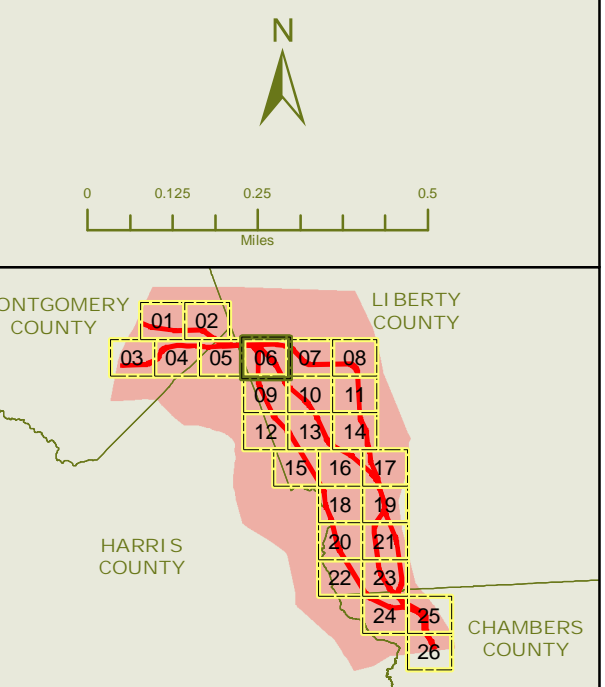
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- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

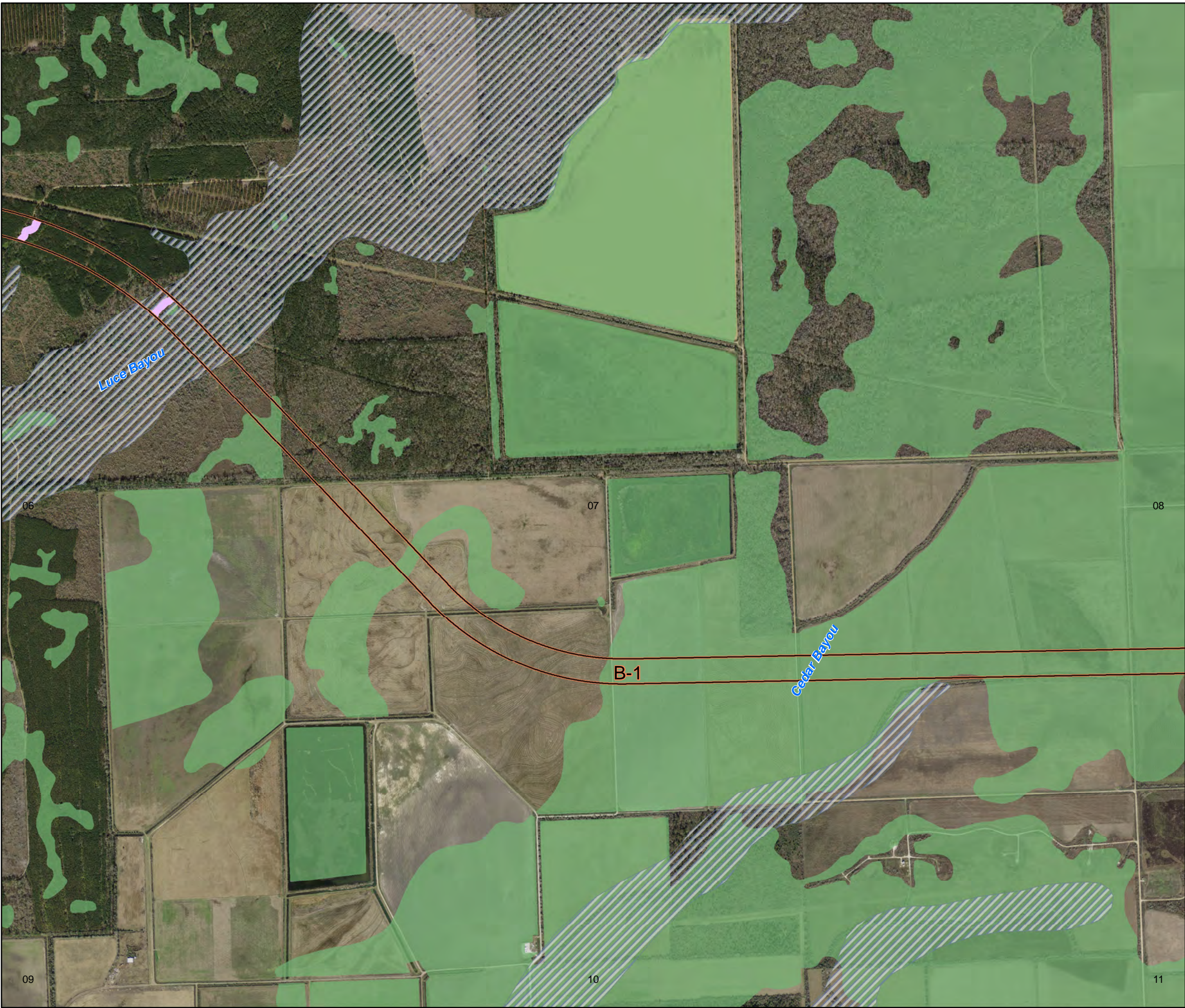
Agricultural Wetland (AGW)	Forest (F)	Open Water
Ditch	Forested Wetland (FW)	Stream/River
Agricultural Land (AG)	Non-forested Wetland (Non-FW)	Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)



Source Data: H-GAC, 2008; NAIP, 2008; FEMA, 1995, 1996, 1998, 2006; National Wetlands Inventory, 2004; HNTB, 2012



Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

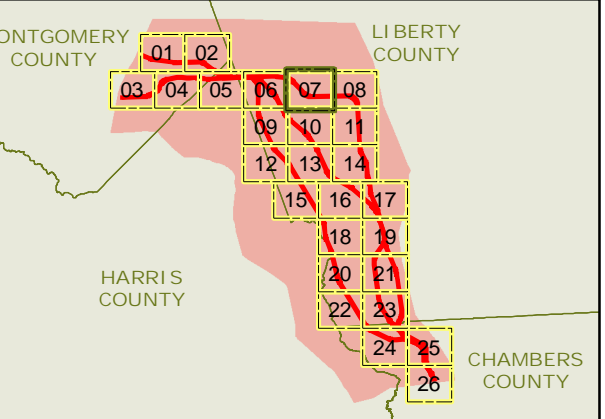
- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
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- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)	Forest (F)	Open Water
Ditch	Forested Wetland (FW)	Stream/River
Agricultural Land (AG)	Non-forested Wetland (Non-FW)	Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains

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Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

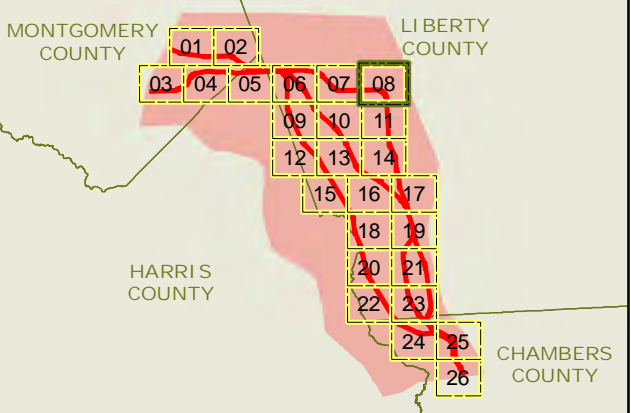
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
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8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
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11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E)

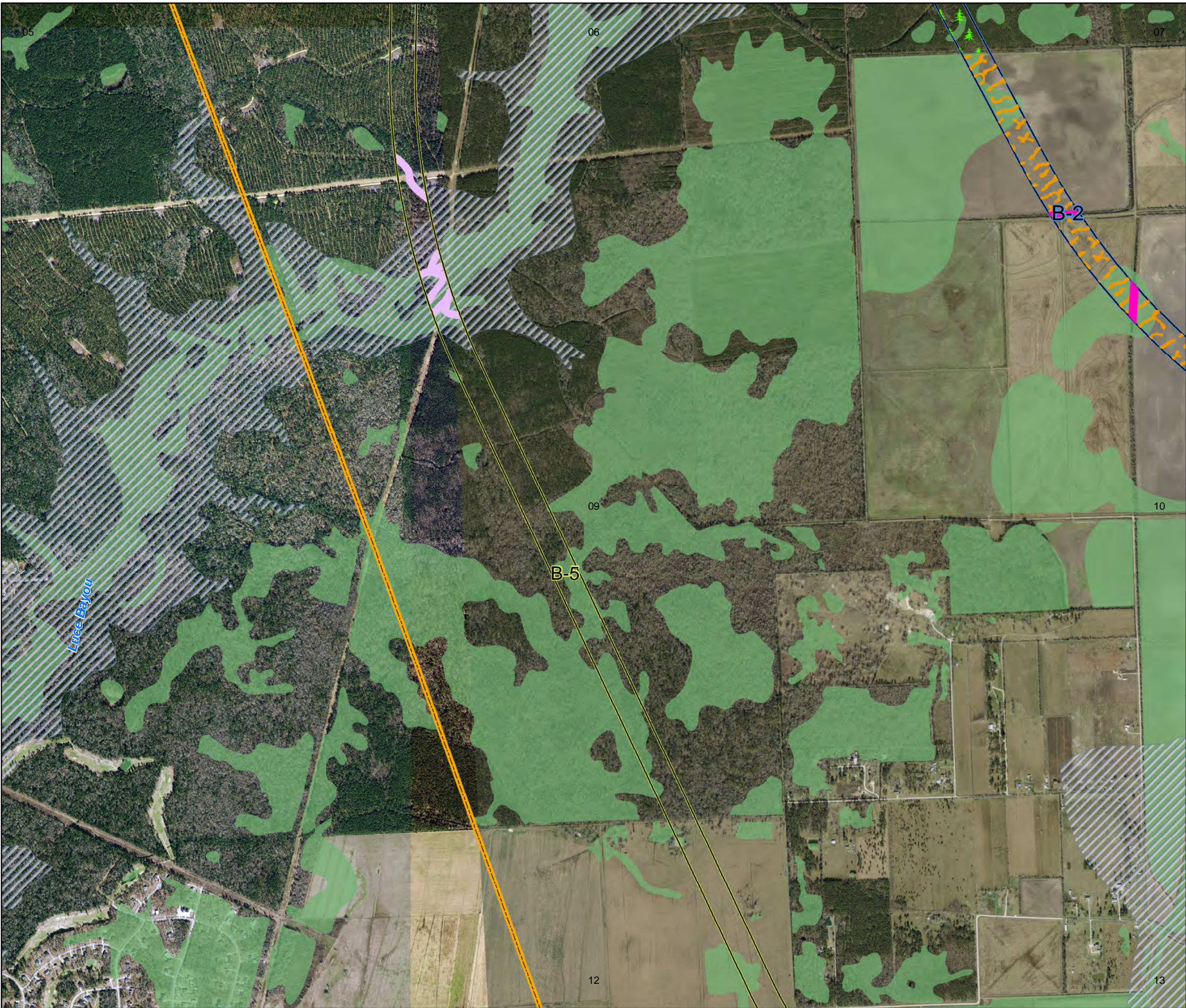
Grand Parkway

Segments H and I-1

EXHIBIT: 4-6

Wetlands, Vegetative Communities, and Floodplains





Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

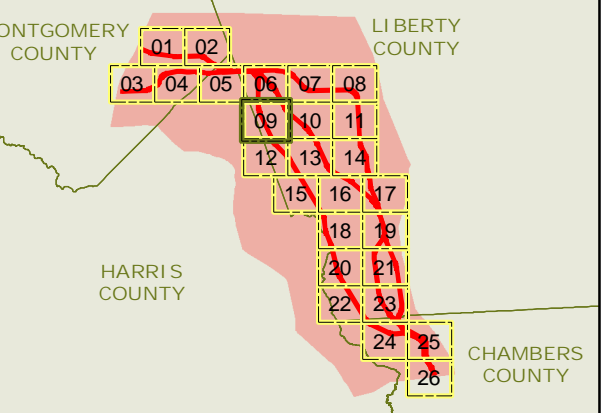
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- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)	Forest (F)	Open Water
Ditch	Forested Wetland (FW)	Stream/River
Agricultural Land (AG)	Non-forested Wetland (Non-FW)	Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
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11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)

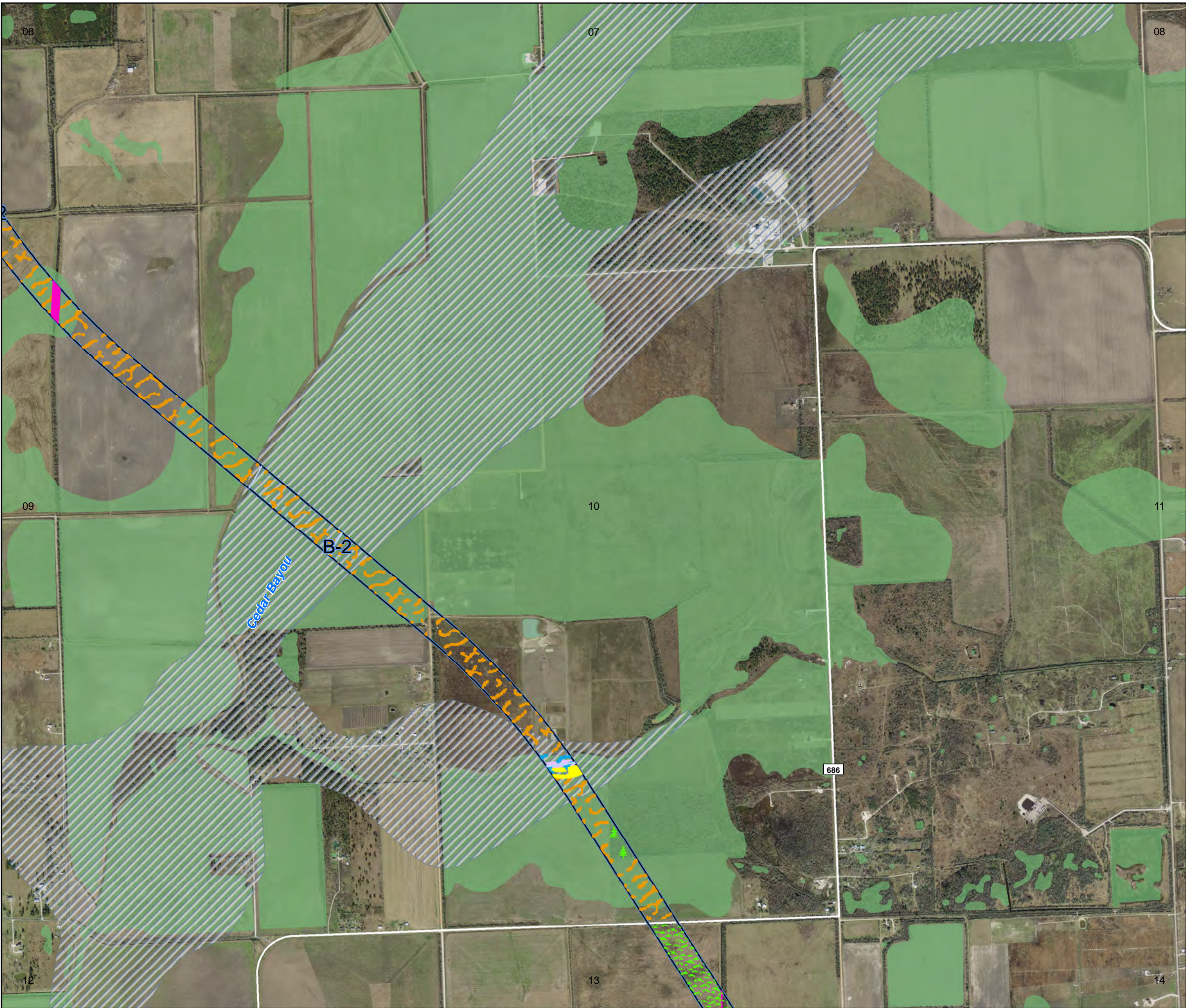


SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains

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THE GRAND PARKWAY



Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

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- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

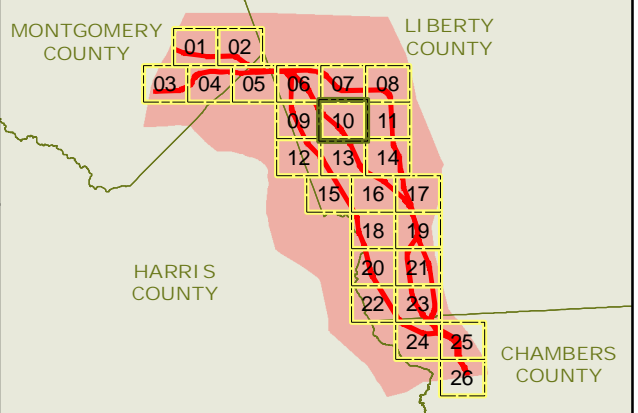
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
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Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains

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Legend

Roads and Boundaries

- Interstate Highway
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- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

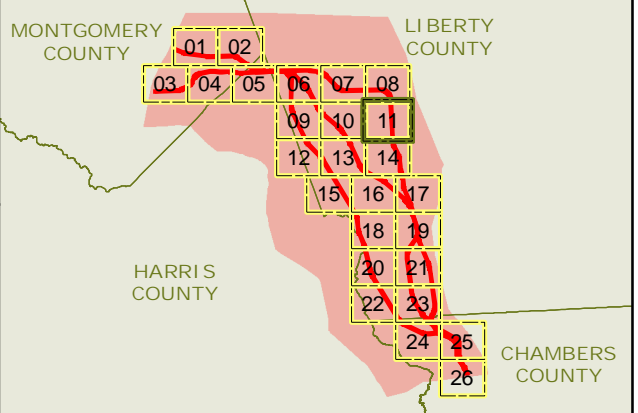
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
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Vegetative Communities within ROW (ac)

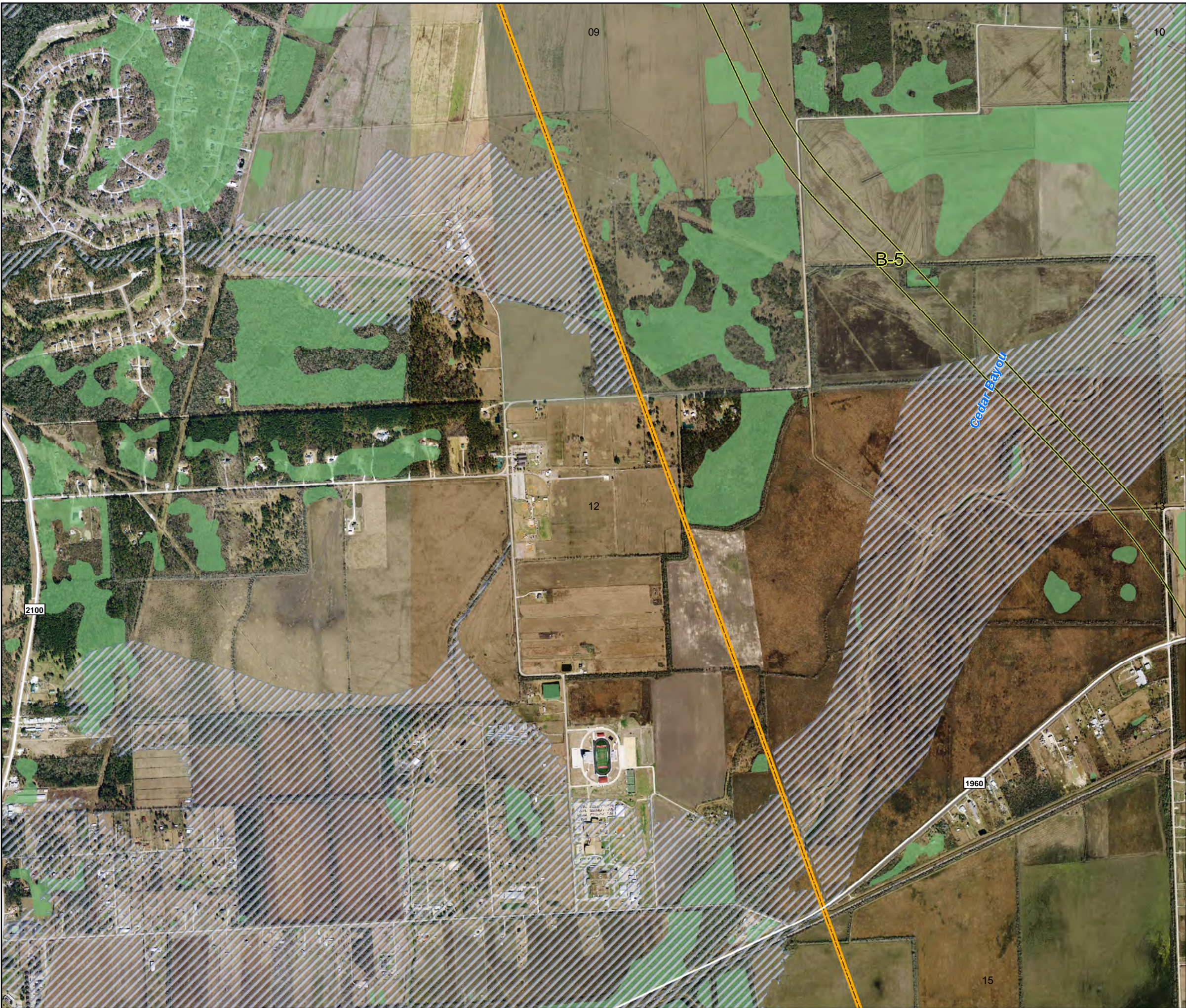


SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains



Source Data: H-GAC, 2008; NAIP, 2008; FEMA, 1995, 1996, 1998, 2006; National Wetlands Inventory, 2004; HNTB, 2012



Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

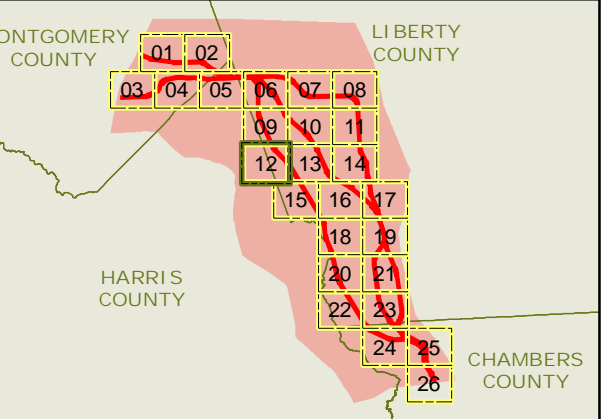
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- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)	Forest (F)	Open Water
Ditch	Forested Wetland (FW)	Stream/River
Agricultural Land (AG)	Non-forested Wetland (Non-FW)	Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
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2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
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7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)

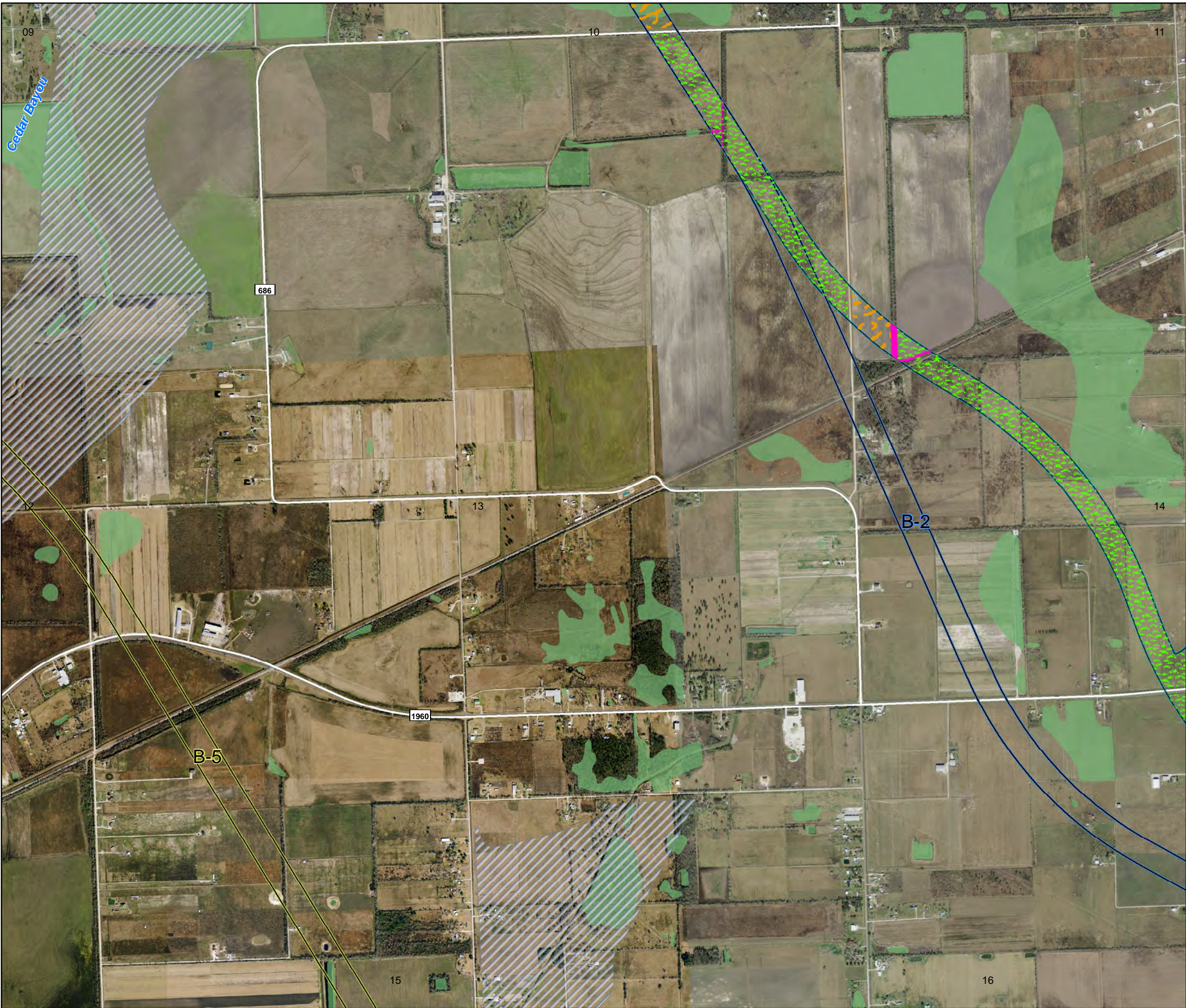


SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains

Page 12 of 26

THE GRAND PARKWAY



Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

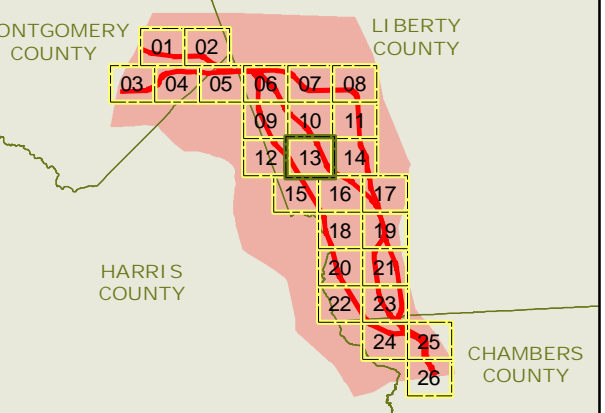
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

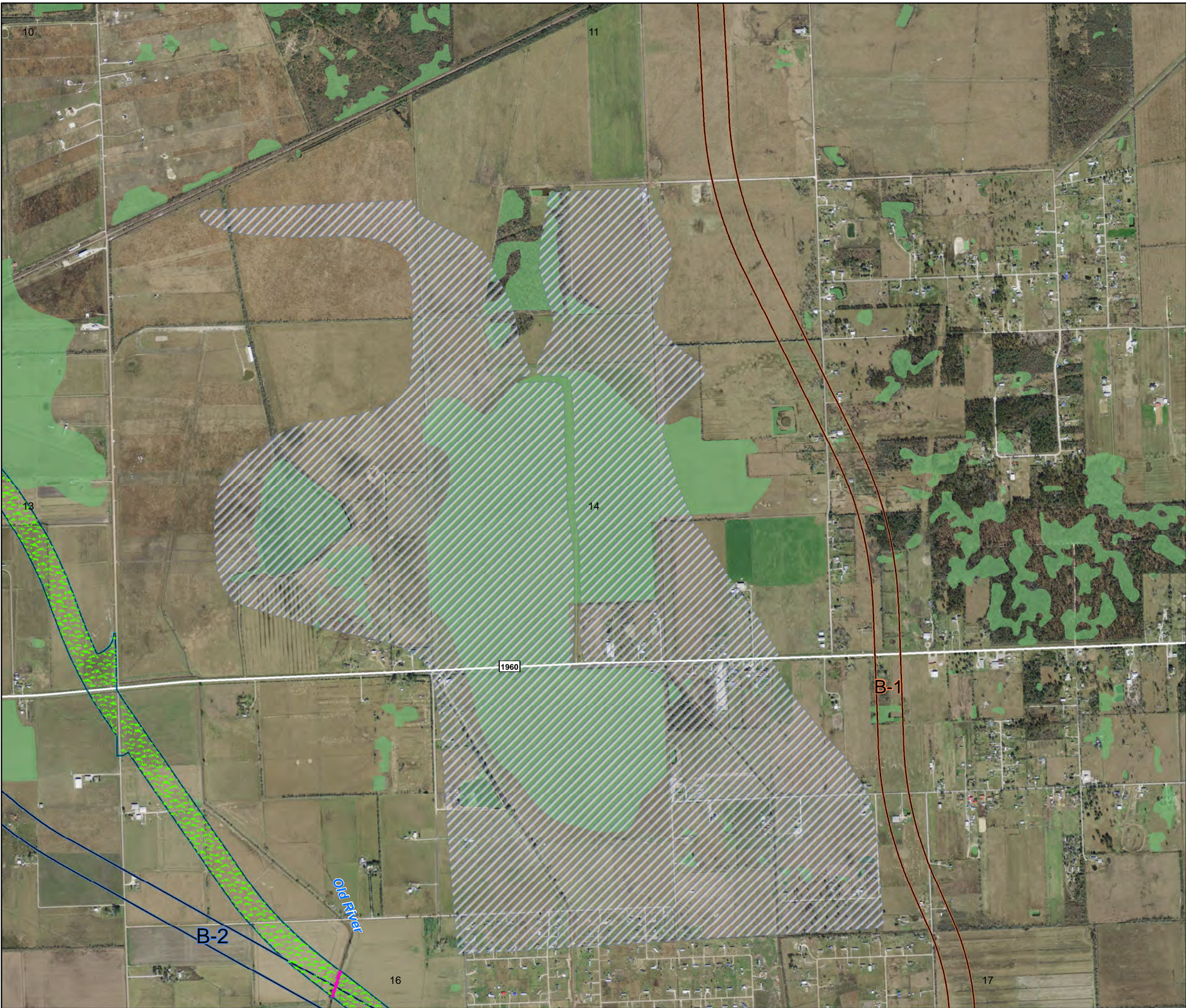
Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-6 Wetlands, Vegetative Communities, and Floodplains

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Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

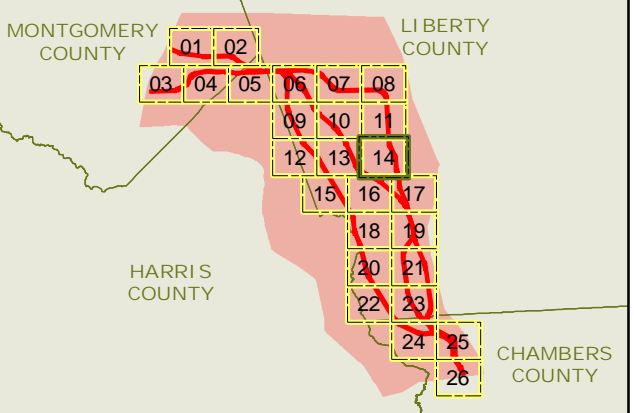
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

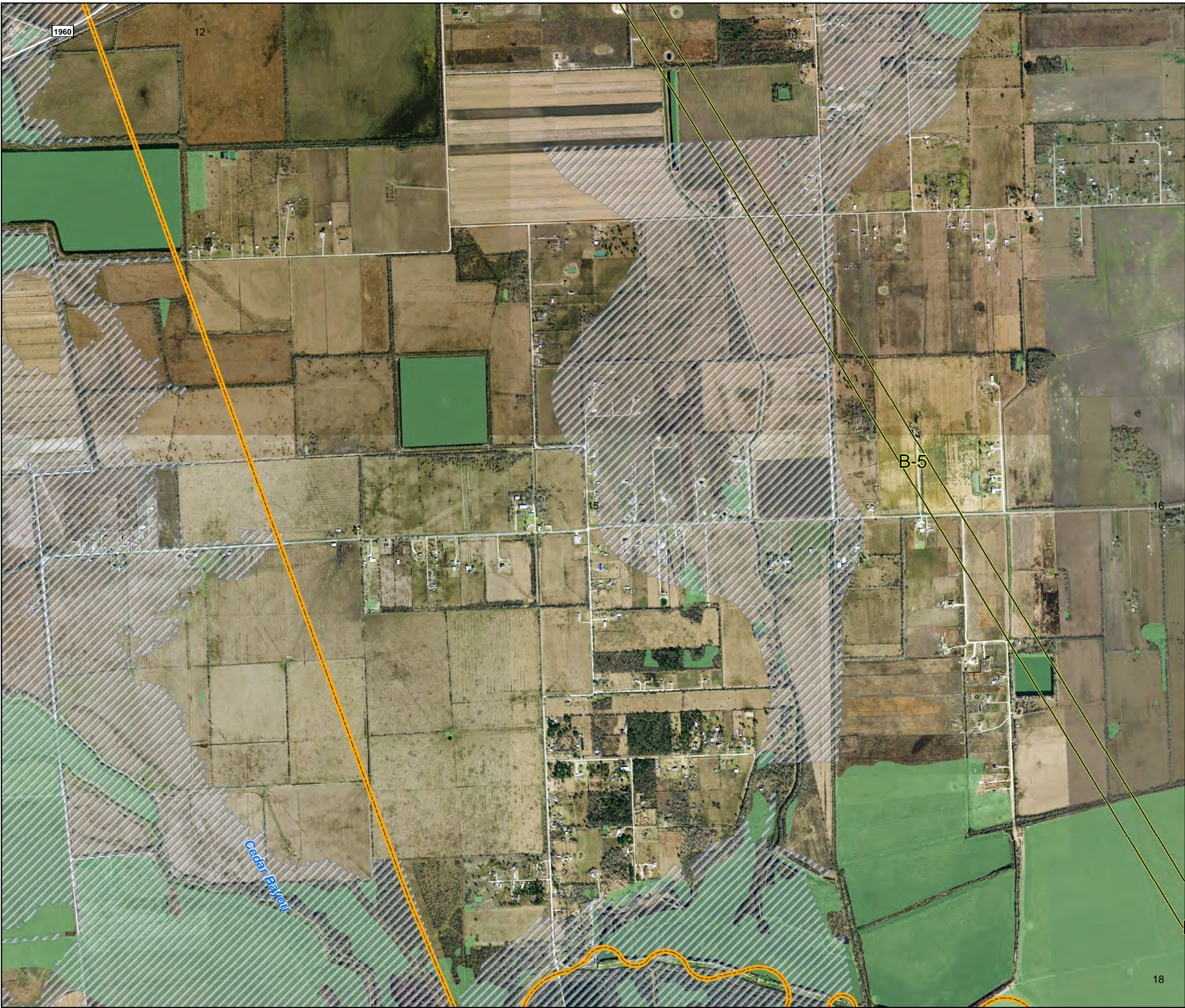
Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains





Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

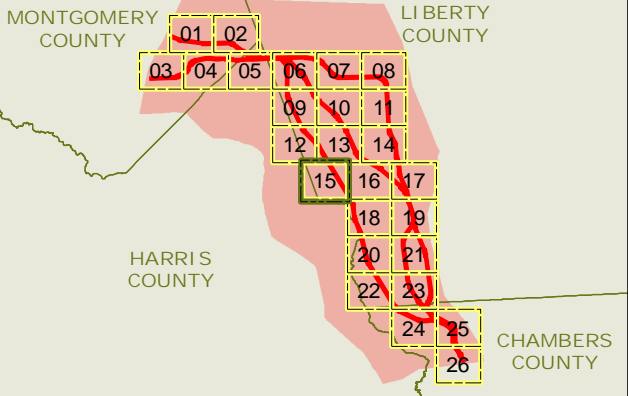
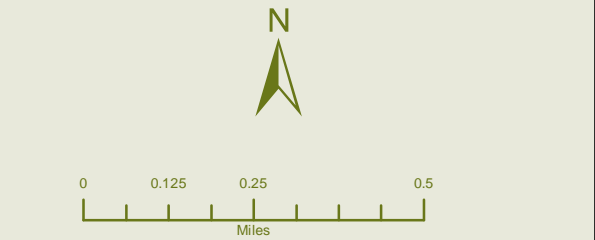
- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

	Agricultural Wetland (AGW)		Forest (F)		Open Water
	Ditch		Forested Wetland (FW)		Stream/River
	Agricultural Land (AG)		Non-forested Wetland (Non-FW)		Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

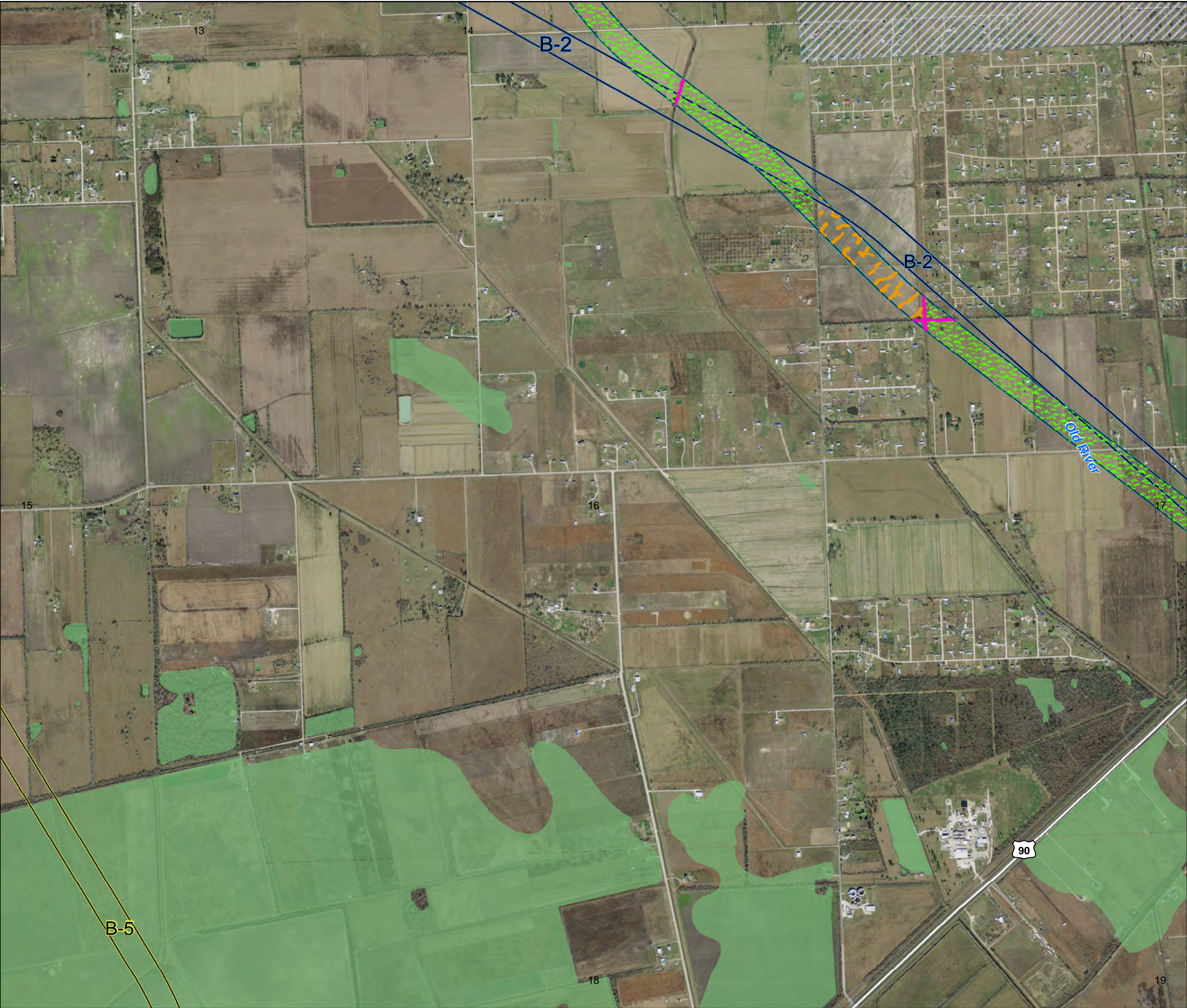
Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-6 Wetlands, Vegetative Communities, and Floodplains





Legend

Roads and Boundaries

Interstate Highway

US Highway

State Highway

FM Road

Study Area

County Boundary

Map Index

100-Year Floodplain

NWI Wetlands

Sections

A-2 (Alt. 2-6)

A-4 (Alt. 7-11)

B-1 (Alt. 2,3,7,8)

B-2 (Alt. 4,5,9,10)

B-5 (Alt. 6,11)

C-2 (Alt. 2,4,7,9)

C-3 (Alt. 3,5,8,10)

C-6 (Alt. 6,11)

Updates (Alt. 10R only)

**Vegetative Communities Within ROW
(Photo-Interpreted)**

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

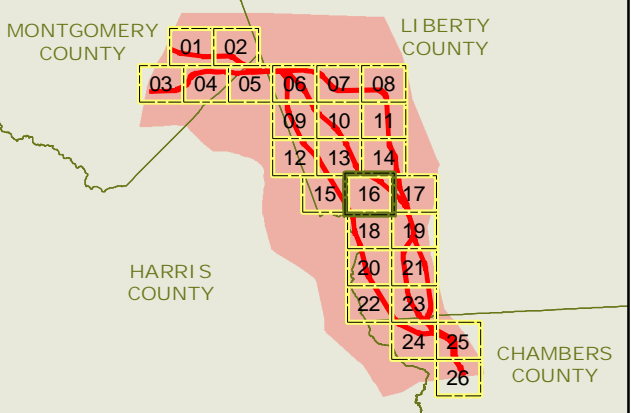
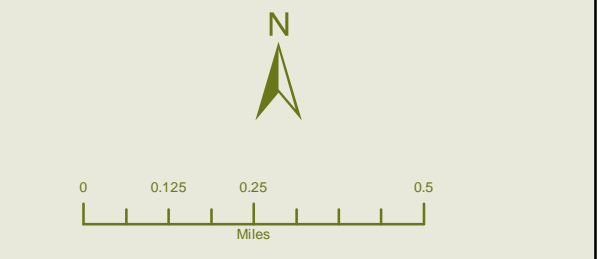
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains



Source Data: H-GAC, 2008; NAIP, 2008; FEMA, 1995, 1996, 1998, 2006; National Wetlands Inventory, 2004; HNTB, 2012



Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

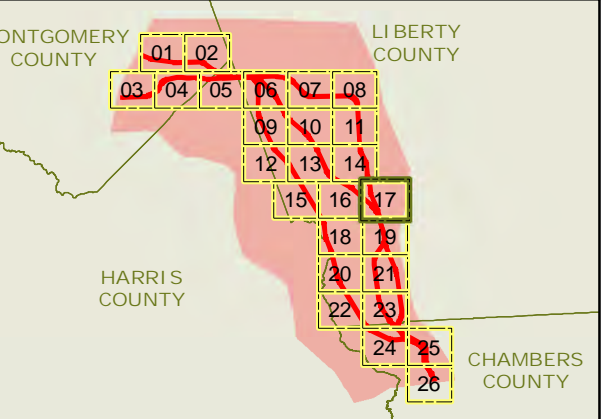
- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)	Forest (F)	Open Water
Ditch	Forested Wetland (FW)	Stream/River
Agricultural Land (AG)	Non-forested Wetland (Non-FW)	Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)

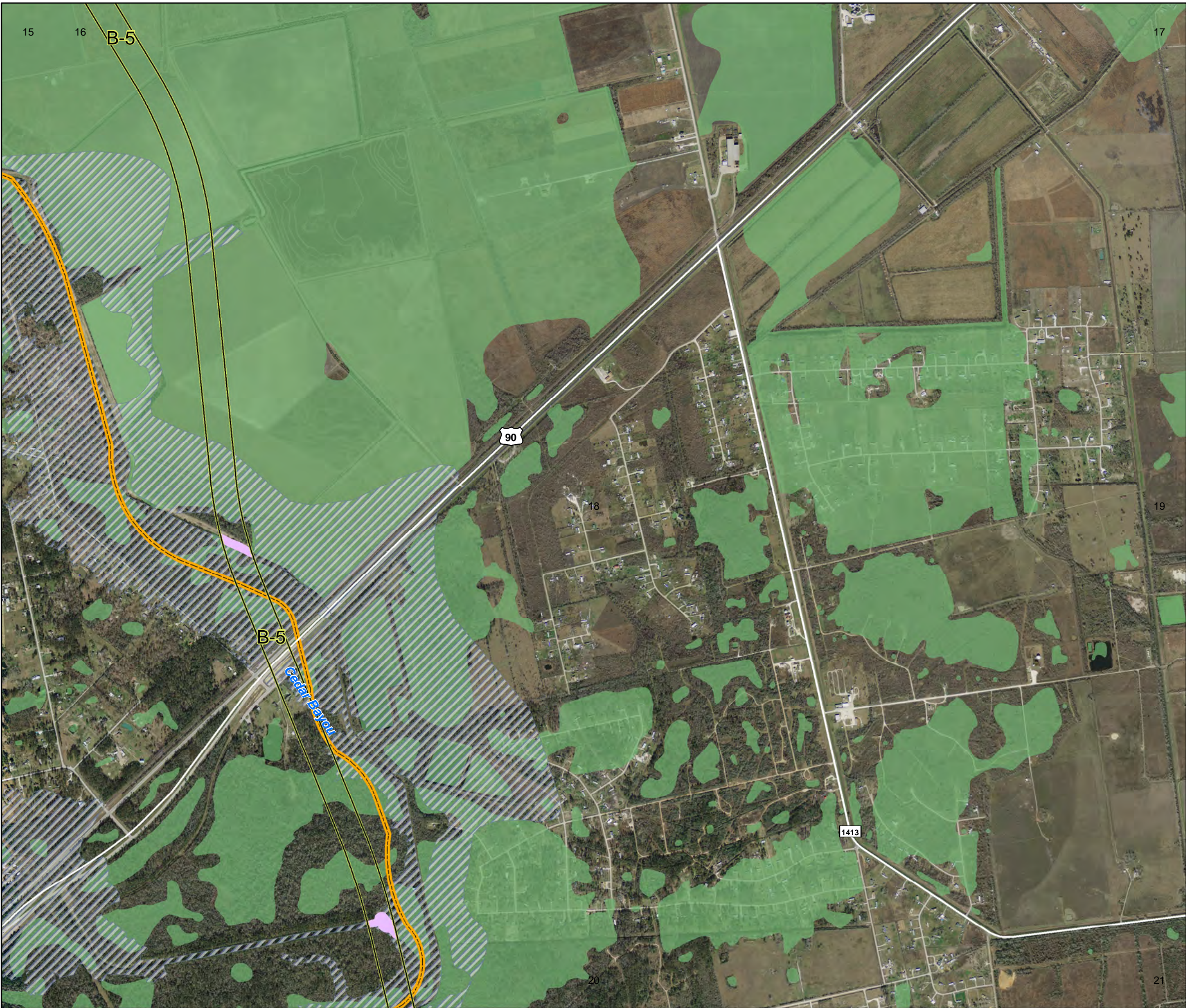


SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains

Page 17 of 26

Source Data: H-GAC, 2008; NAIP, 2008; FEMA, 1995, 1996, 1998, 2006; National Wetlands Inventory, 2004; HNTB, 2012



Legend

Roads and Boundaries

- Interstate Highway
- US Highway
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- County Boundary
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Sections

- A-2 (Alt. 2-6)
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- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

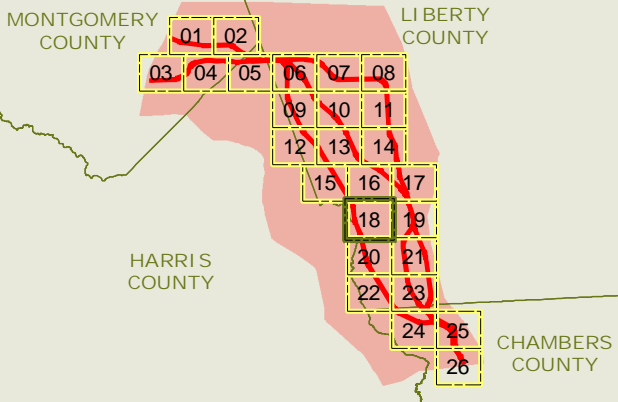
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
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10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1
EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains



Source Data: H-GAC, 2008; NAIP, 2008; FEMA, 1995, 1996, 1998, 2006; National Wetlands Inventory, 2004; HNTB, 2012



Legend

Roads and Boundaries

- Interstate Highway
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- County Boundary
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Sections

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- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

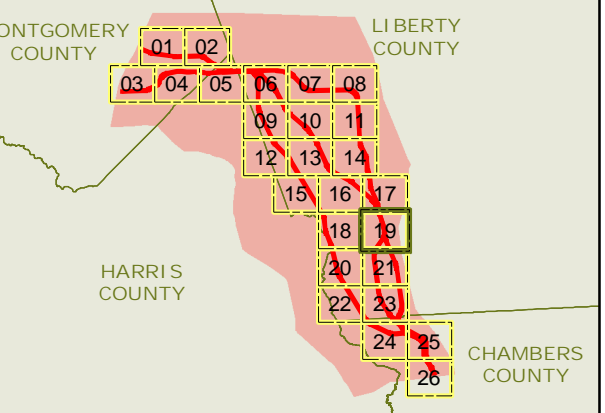
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
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6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains

Page 19 of 26



Legend

Roads and Boundaries

Interstate Highway

US Highway

State Highway

FM Road

Study Area

County Boundary

Map Index

100-Year Floodplain

NWI Wetlands

Sections

A-2 (Alt. 2-6)

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B-1 (Alt. 2,3,7,8)

B-2 (Alt. 4,5,9,10)

B-5 (Alt. 6,11)

C-2 (Alt. 2,4,7,9)

C-3 (Alt. 3,5,8,10)

C-6 (Alt. 6,11)

Updates (Alt. 10R only)

Vegetative Communities Within ROW
(Photo-Interpreted)

Agricultural Wetland (AGW)

Ditch

Agricultural Land (AG)

Forest (F)

Forested Wetland (FW)

Non-forested Wetland (Non-FW)

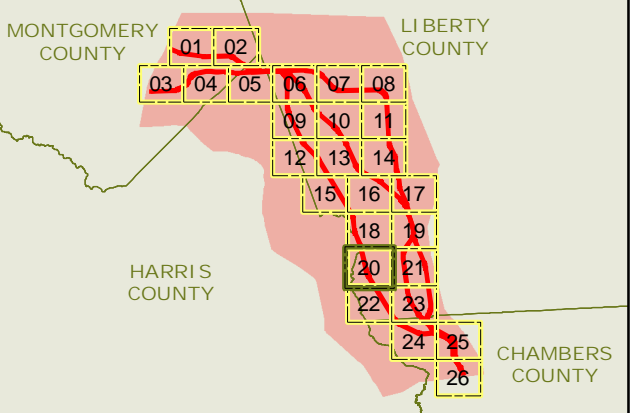
Open Water

Stream/River

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
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6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
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10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains



Source Data: H-GAC, 2008; NAIP, 2008; FEMA, 1995, 1996, 1998, 2006; National Wetlands Inventory, 2004; HNTB, 2012



Legend

Roads and Boundaries

Interstate Highway

US Highway

State Highway

FM Road

Study Area

County Boundary

Map Index

100-Year Floodplain

NWI Wetlands

Sections

A-2 (Alt. 2-6)

A-4 (Alt. 7-11)

B-1 (Alt. 2,3,7,8)

B-2 (Alt. 4,5,9,10)

B-5 (Alt. 6,11)

C-2 (Alt. 2,4,7,9)

C-3 (Alt. 3,5,8,10)

C-6 (Alt. 6,11)

Updates (Alt. 10R only)

**Vegetative Communities Within ROW
(Photo-Interpreted)**

Agricultural Wetland (AGW)

Ditch

Agricultural Land (AG)

Forest (F)

Forested Wetland (FW)

Non-forested Wetland (Non-FW)

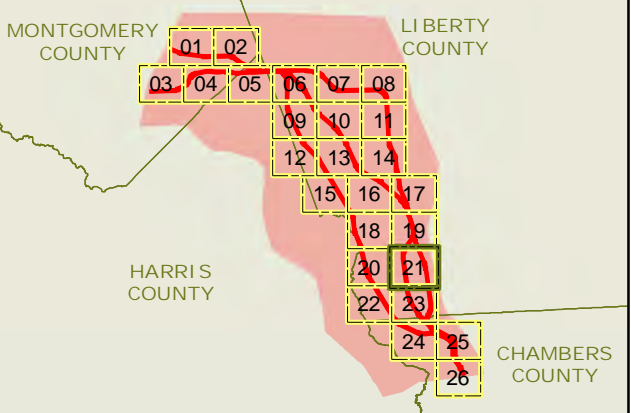
Open Water

Stream/River

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)

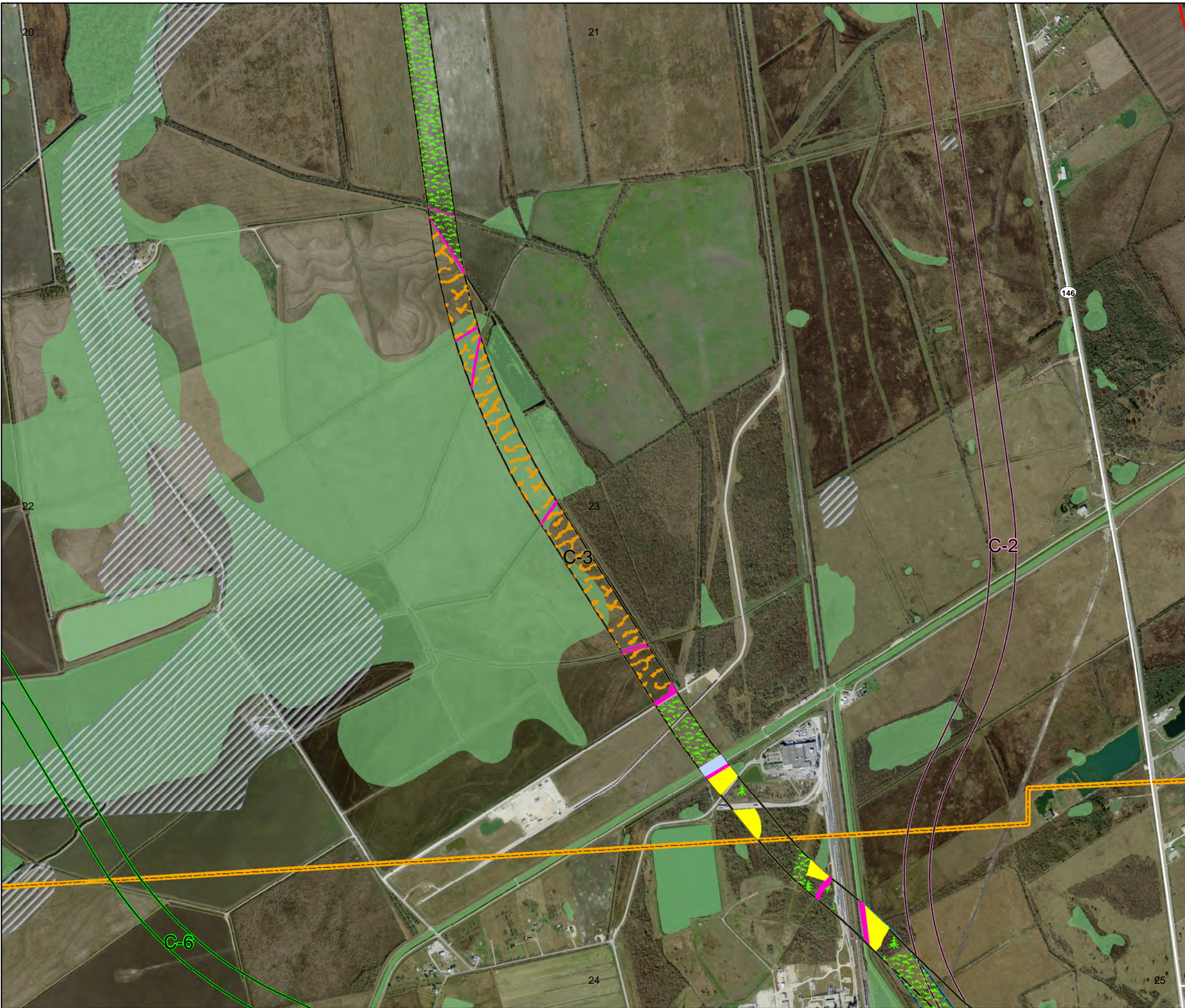


SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains



Source Data: H-GAC, 2008; NAIP, 2008; FEMA, 1995, 1996, 1998, 2006; National Wetlands Inventory, 2004; HNTB, 2012



Legend

Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

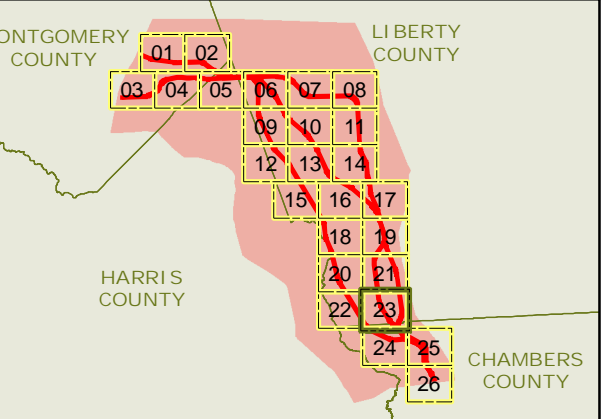
- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)	Forest (F)	Open Water
Ditch	Forested Wetland (FW)	Stream/River
Agricultural Land (AG)	Non-forested Wetland (Non-FW)	Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E) Grand Parkway Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
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THE GRAND PARKWAY



Roads and Boundaries

- Interstate Highway
- US Highway
- State Highway
- FM Road
- Study Area
- County Boundary
- Map Index
- 100-Year Floodplain
- NWI Wetlands

Sections

- A-2 (Alt. 2-6)
- A-4 (Alt. 7-11)
- B-1 (Alt. 2,3,7,8)
- B-2 (Alt. 4,5,9,10)
- B-5 (Alt. 6,11)
- C-2 (Alt. 2,4,7,9)
- C-3 (Alt. 3,5,8,10)
- C-6 (Alt. 6,11)
- Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

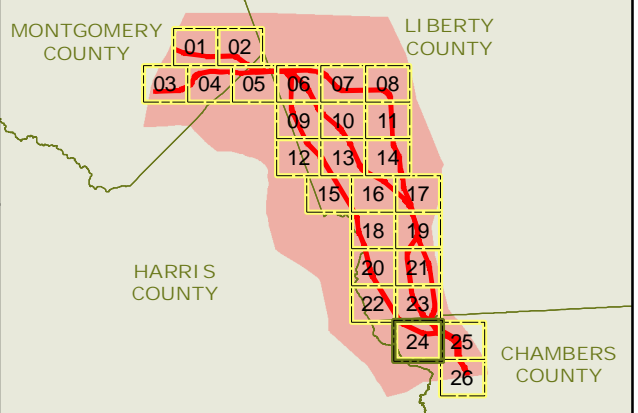
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
7	A-4, B-1, C-2	363.41	676.13	569.27	6.13	41.16	13.6
8	A-4, B-1, C-3	367.09	2.4	555.24	25.41	38.84	13.6
9	A-4, B-2, C-2	224.65	689.84	576.84	4.48	19.31	17.18
10	A-4, B-2, C-3	228.33	741.75	562.81	23.76	17	17.18
10R	A-4, B-2, C-4	285.37	740.06	573.07	26.53	15.5	12.38
11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

Vegetative Communities within ROW (ac)



SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains

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Legend

Roads and Boundaries

Interstate Highway

US Highway

State Highway

FM Road

Study Area

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100-Year Floodplain

NWI Wetlands

Sections

A-2 (Alt. 2-6)

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B-2 (Alt. 4,5,9,10)

B-5 (Alt. 6,11)

C-2 (Alt. 2,4,7,9)

C-3 (Alt. 3,5,8,10)

C-6 (Alt. 6,11)

Updates (Alt. 10R only)

**Vegetative Communities Within ROW
(Photo-Interpreted)**

Agricultural Wetland (AGW)

Forest (F)

Open Water

Ditch

Forested Wetland (FW)

Stream/River

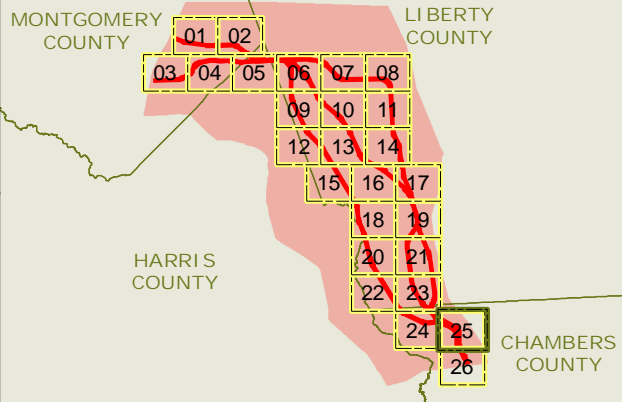
Agricultural Land (AG)

Non-forested Wetland (Non-FW)

Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
4	A-2, B-2, C-2	224.65	689.84	591.74	2.79	19.09	14.94
5	A-2, B-2, C-3	228.33	741.11	577.71	22.08	16.77	14.94
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Vegetative Communities within ROW (ac)

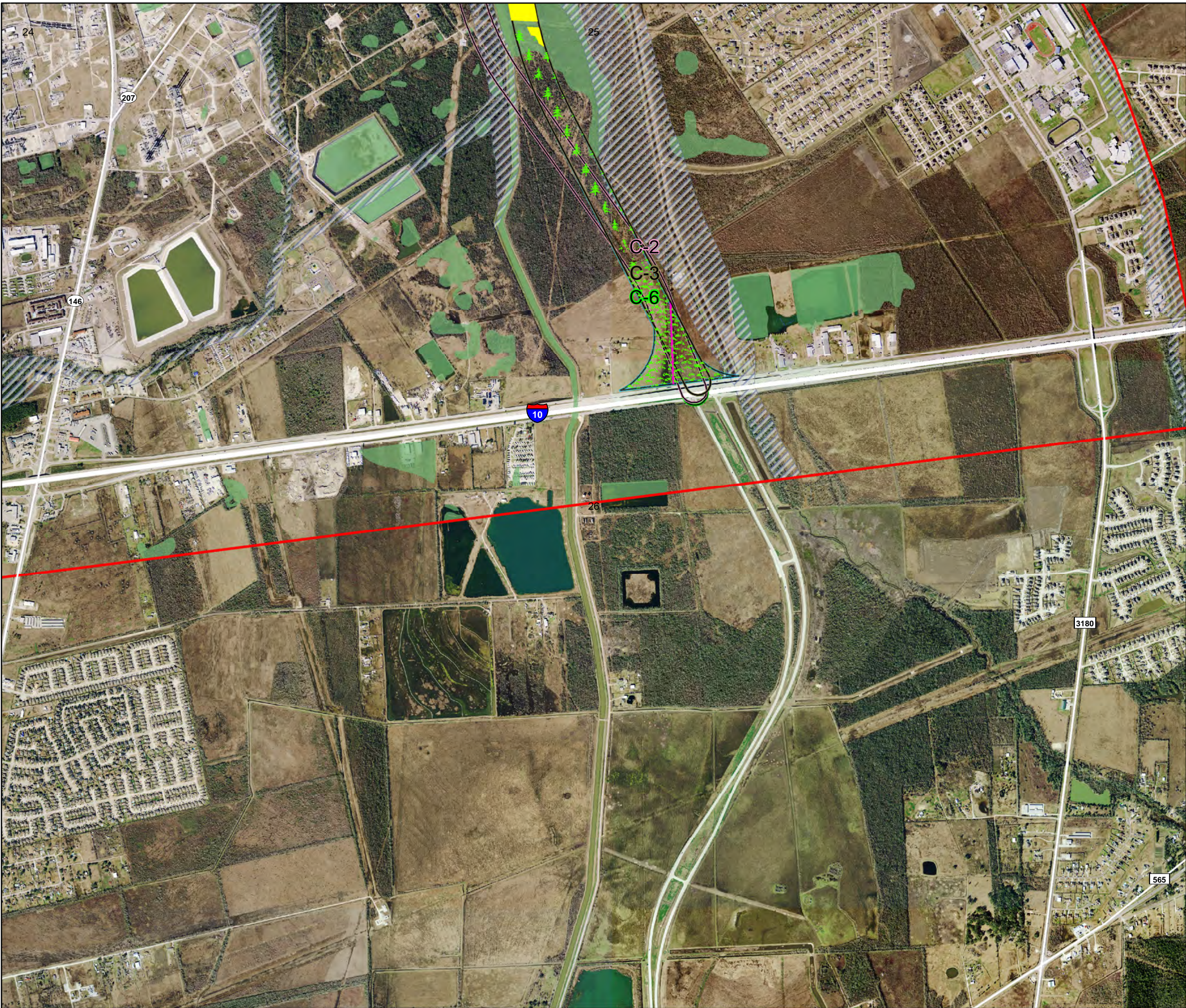


SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains



Source Data: H-GAC, 2008; NAIP, 2008; FEMA, 1995, 1996, 1998, 2006; National Wetlands Inventory, 2004; HNTB, 2012



Legend

- Roads and Boundaries**

 - Interstate Highway
 - US Highway
 - State Highway
 - FM Road
 - Study Area
 - County Boundary
 - Map Index
 - 100-Year Floodplain
 - NWI Wetlands
- Sections**

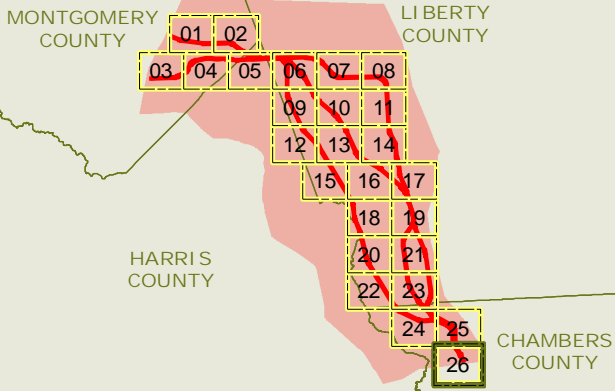
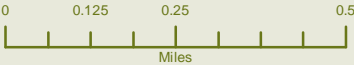
 - A-2 (Alt. 2-6)
 - A-4 (Alt. 7-11)
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 - B-2 (Alt. 4,5,9,10)
 - B-5 (Alt. 6,11)
 - C-2 (Alt. 2,4,7,9)
 - C-3 (Alt. 3,5,8,10)
 - C-6 (Alt. 6,11)
 - Updates (Alt. 10R only)

Vegetative Communities Within ROW (Photo-Interpreted)

- Agricultural Wetland (AGW)
- Ditch
- Agricultural Land (AG)
- Forest (F)
- Forested Wetland (FW)
- Non-forested Wetland (Non-FW)
- Open Water
- Stream/River
- Riparian (RZ)

Alternative	Section	AGW	AG	F	FW	Non-FW	RZ
1	No-Build	0	0	0	0	0	0
2	A-2, B-1, C-2	363.41	676.13	584.17	4.45	40.93	11.36
3	A-2, B-1, C-3	367.09	727.4	570.14	23.73	38.62	11.36
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6	A-2, B-5, C-6	224.73	541	707.91	27.26	23.07	19.29
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11	A-4, B-5, C-6	224.73	541	693.01	28.95	23.3	21.53

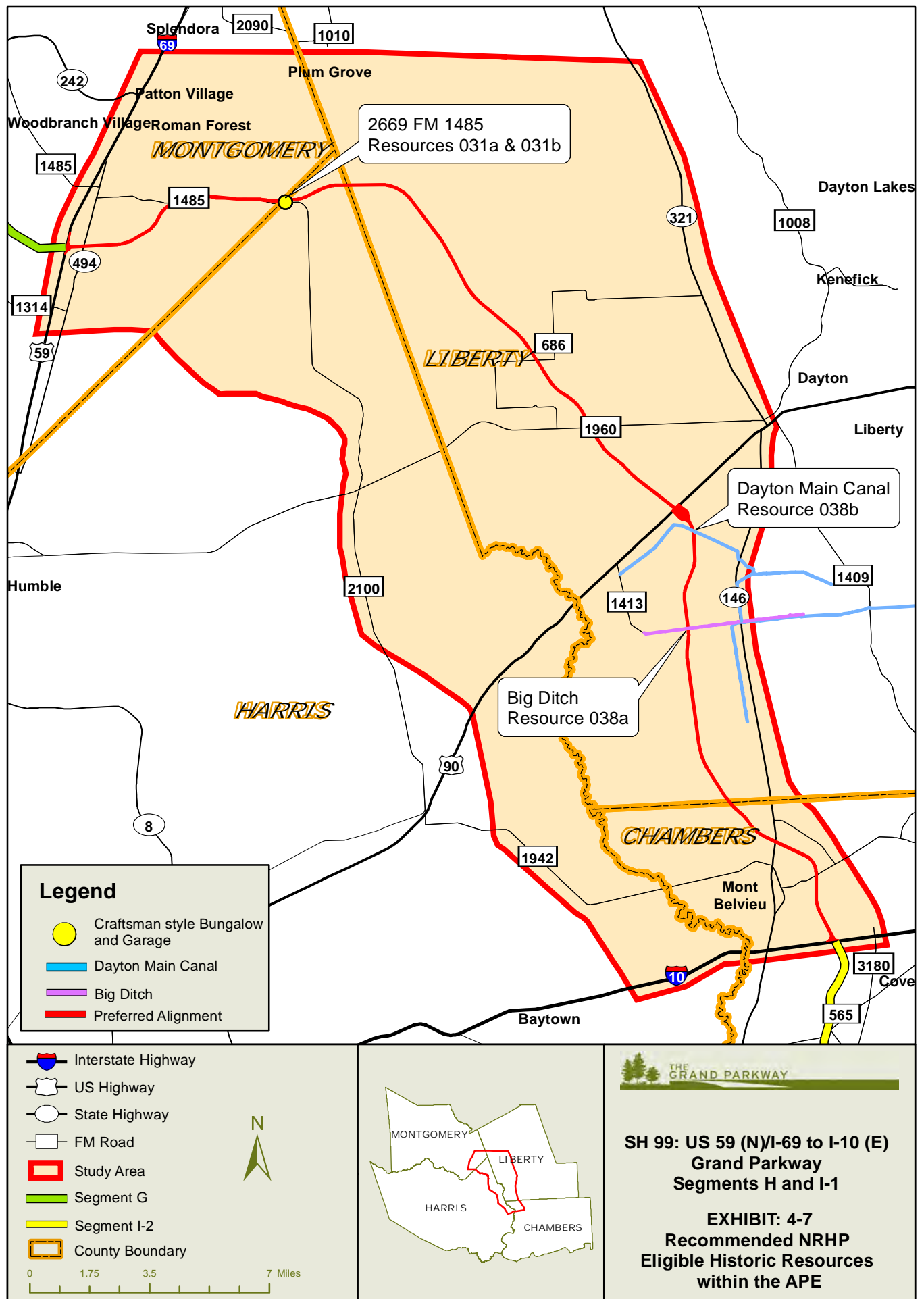
Vegetative Communities within ROW (ac)

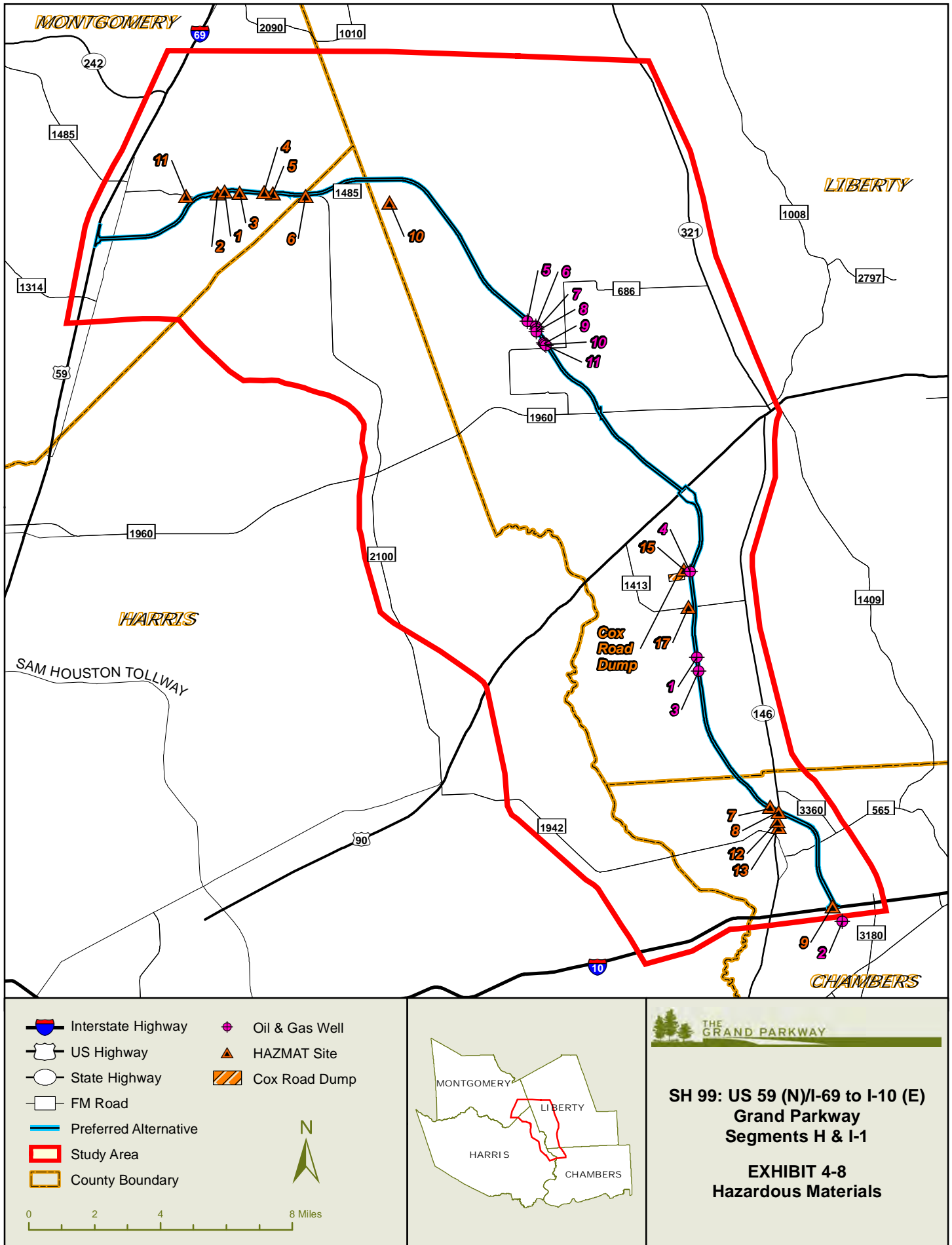


SH 99: US 59 (N)/I-69 to I-10 (E)
Grand Parkway
Segments H and I-1

EXHIBIT: 4-6
Wetlands, Vegetative
Communities, and Floodplains







Sources: EDR Report (3308479.1s) and Railroad Commission of Texas, 2012

